_\$2

LLL	00000000	Ö	AAAAAAA AAAAAAA AAAAAAA				\$	\$
iii	000	000		AAA		DDD	SSS	SSS
LLL	000	000		AAA		DDD	SSS	SSS
LLL	000	000	AAA	AAA	DDD	DDD	SSS	SSS
LLL	000	000	AAA	AAA	DDD	DDD	SSS	SSS
LLL	000	000		AAA	DDD	DDD	SSS	SSS
LLL	000	000		AAA	DDD	DDD	SSS	SSS
LLL	000	000		AAA	DDD	DDD	SSSSSSSS	SSSSSSSS
LLL	000	000		AAA	DDD	DDD	SSSSSSSS	SSSSSSSS
LLL	000	000		AAA	DDD	DDD	SSSSSSSS	SSSSSSSS
LLL	000	000	AAAAAAAAAA		DDD	DDD	SSS	SSS
LLL	000	000	AAAAAAAAAA		DDD	DDD	SSS	SSS
LLL	000	000	AAAAAAAAAA		DDD	DDD	SSS	SSS
LLL	000	000		AAA	DDD	DDD	SSS	SSS
LLL	000	000		AAA	DDD	DDD	SSS	SSS
LLL	000	000		AAA		DDD	SSS	SSS
	000000000			AAA	DDDDDDDDDDDD		\$\$\$\$\$\$\$\$\$\$\$\$\$	\$
	000000000			AAA			\$	\$
LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	00000000	,	AAA	AAA	0000000000000		2222222222	222222222

RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	B8888888 B8 B8 B8 B8	\$	HH H	RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR
		\$			

RI

%TITLE 'RDBSHR - Rights database loadable system services' MODULE RDBSHR (IDENT = 'V04-000') = BEGIN

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FACILITY: EXECUTIVE, SYSTEM SERVICES

ABSTRACT:

This module contains system services that maintain the rights database. It is built as a privileged shareable image. The remaining rights database system services are in the exec. The system services in this module are:

\$ADD_HOLDER \$ADD_IDENT \$CREATE_RDB \$FIND_HELD \$FIND_HOLDER \$MOD_HOLDER \$MOD_IDENT \$REM_HOLDER \$REM_IDENT

ENVIRONMENT:

MODIFIED BY:

VAX/VMS native mode, user, supervisor, or exec modes.

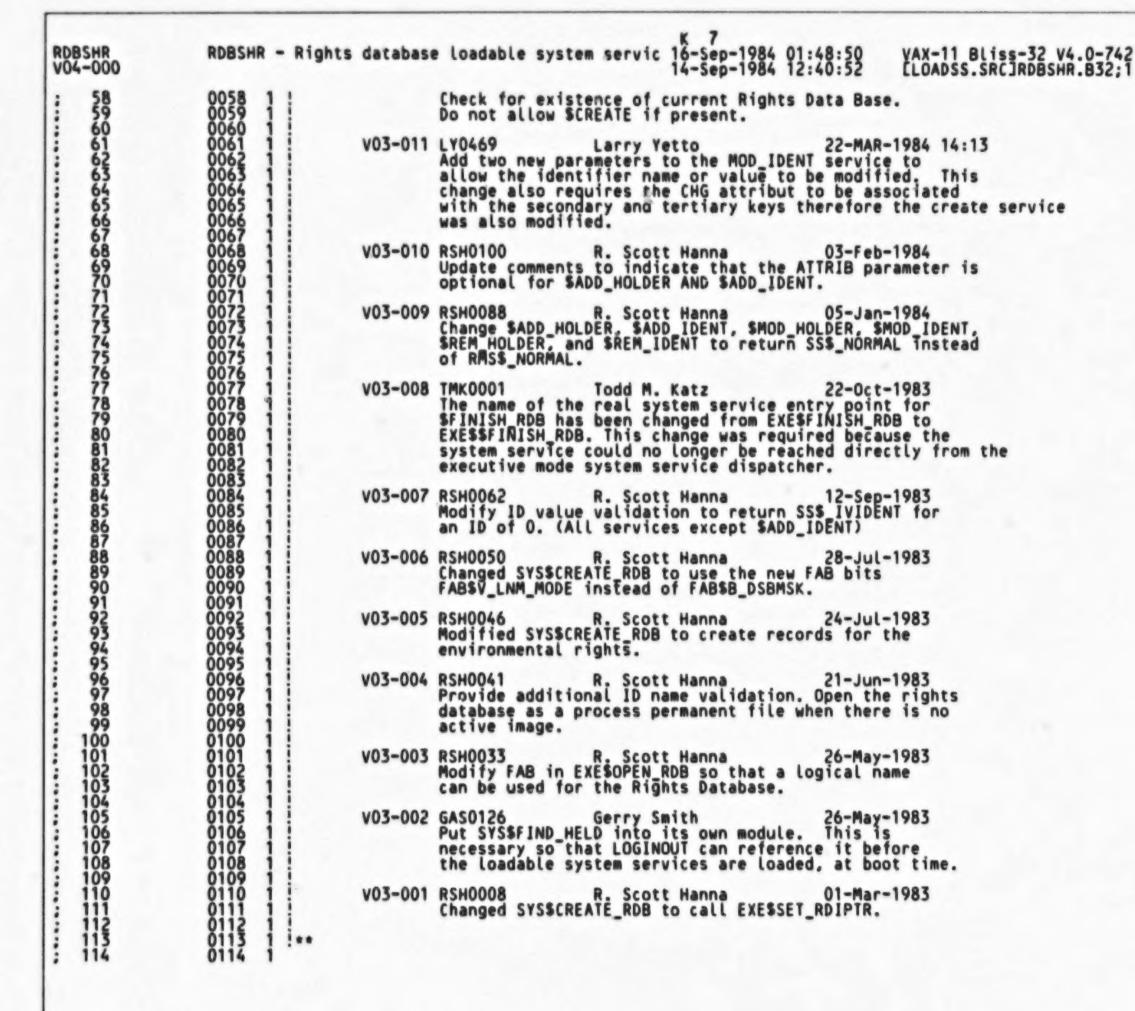
AUTHOR: Andrew C. Goldstein, CREATION DATE: 16-Nov-1982 18:51

V03-013 ACG0447 Andrew C. Goldstein, 23-Aug-1984 16:35 Upcase all input identifier names

V03-012 JRL0009 John R. Lawson, Jr. 29-Jun-1984 11:28

Page

(1)



UIC\$M_ID_FORM_FLAG = 1°31, ! mask for id form of identifier KGB\$M_VACID_ATTRIB = KGB\$M_RESOURCE; ! mask of valid attributes

PROBEW:

LITERAL

RDI

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$ADD_HOLDER - add holder to RDB 14-Sep-1984 12:40:52
RDBSHR
V04-000
                                                                                                                                                VAX-11 Bliss-32 V4.0-742
LLOADSS.SRCJRDBSHR.B32;1
                                                                                                                                                                                                                  (2)
                                       %SBTTL 'SYS$ADD_HOLDER - add holder to RDB'
GLOBAL ROUTINE SYS$ADD_HOLDER (ID, HOLDER, ATTRIB) =
    !++
                                          FUNCTIONAL DESCRIPTION:
                                                    This routine adds the specified holder record to the rights
                                                    database.
                                          CALLING SEQUENCE:
                                                    SYSSADD_HOLDER (ID, HOLDER, ATTRIB)
                                          INPUT PARAMETERS:
                                                   ID: identifier longword to associate the holder record with HOLDER: address of the holder identifier quadword ATTRIB: (optional) attributes longword to grant to the holder
                                          IMPLICIT INPUTS:
                                                    NONE
                                          OUTPUT PARAMETERS:
                                                    NONE
                                          IMPLICIT OUTPUTS:
                                                    NONE
                                          ROUTINE VALUE:
                                                    Status of operation
                                          SIDE EFFECTS:
                                                    Holder record created
                                       BEGIN
                                       LOCAL
                                                                              : LONG,
: REF VECTOR,
: VECTOR [2],
                                                    LOC_ID
LOC_HOLDER
                                                                                                            local copy of ID
                          0200
                                                                                                                                  HOLDER
                                                                                                            local copy of
                                                                              : VECTOR [2], | local copy of Holder id quadword | LONG, | local copy of ATTRIB | LONG, | attributes of identifier | general status value | call to EXESCLOSE_RDB required flag | SRAB_DECL, | RAB for file operations | SBBLOCK [KGB$K_IDENT_RECORD];
                                                    HOLDER ID
LOC ATTRIB
ID ATTRIB
STATUS
                                                    CLOSE
                                                    REC_BUFFER
                                                                                                           general purpose record buffer
                                       LABEL
                                                    RDB_OPEN:
                                                                                                        ! rights database is open in this block
                                          Validate parameters
                                       LOC_ID = .ID;
```

RDE

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RDBSHR
V04-000
                             RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$ADD_HOLDER - add holder to RDB 14-Sep-1984 12:40:52
                                                                                                                                                                VAX-11 Bliss-32 V4.0-742
ELOADSS.SRCJRDBSHR.B32;1
                                                                                                                                                                                                                                  Page
                                                                                                                                                                                                                                           (2)
                                            IF (.LOC_ID AND UIC$M_ID_FORM_FLAG) NEQU O
     (IF (.LOC_ID GTRU UIC$K_LAST_ID) THEN RETURN SS$_IVIDENT)
                                           ELSE
                                                   (IF (.LOC_ID GTRU UIC$K_MAX_UIC) OR (.LOC_ID EQL O) THEN RETURN SS$_IVIDENT);
                                           LOC_HOLDER = .HOLDER;
IF NOT PROBER (%REF(0), %REF(8), .LOC_HOLDER) THEN RETURN SS$_ACCVIO;
HOLDER_ID[0] = .LOC_HOLDER[0];
HOLDER_ID[1] = .LOC_HOLDER[1];
IF .HOCDER_ID[0] GTRU UIC$K_MAX_UIC OR
    .HOLDER_ID[0] EQLU .LOC_ID OR
    .HOLDER_ID[1] NEQU 0
                                           THEN
                                                  RETURN SS$_IVIDENT;
                                           LOC_ATTRIB = .ATTRIB;
IF T.LOC_ATTRIB AND NOT KGB$M_VALID_ATTRIB) NEQU O THEN RETURN SS$_BADPARAM;
                            02336
02336
02336
02238
02239
02241
02243
02247
                                               Get the rights database open for write.
                                           $RAB_INIT (RAB = RAB.
RAC = KEY.
                                                                KRF = 0
                                                                KBF = HOLDER_ID[0],
                                                                KSZ = 4
                                                               ROP = (NLK, RRL),

UBF = REC_BUFFER,

USZ = KGB$K_IDENT_RECORD
                                           STATUS = EXESOPEN RDB (0, 1, RAB[RAB$W_ISI], CLOSE);
IF NOT .STATUS THEN RETURN .STATUS;
                             RDB_OPEN:
BEGIN
                                                      Check to make sure that the holder ID exists.
     256
257
258
259
                                                   STATUS = $FIND (RAB = RAB);
IF .STATUS EQLU RMS$ RNF THEN STATUS = SS$_NOSUCHID;
IF NOT .STATUS THEN CEAVE RDB_OPEN;
     260
261
262
263
264
265
266
270
273
273
273
                                                      Read and lock the ident record and save away its attributes.
                                                  RAB[RAB$V_RRL] = 0;

RAB[RAB$V_NLK] = 0;

RAB[RAB$V_RLK] = 1;

RAB[RAB$V_UK] = 1;

RAB[RAB$V_WAT] = 1;

RAB[RAB$L_KBF] = LOC_ID;

STATUS = $GET (RAB = RAB);

IF .STATUS EQLU RMS$_RNF THEN STATUS = SS$_NOSUCHID;

IF NOT .STATUS
```

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RD
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Page

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RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$ADD_HOLDER - add holder to RDB 14-Sep-1984 12:40:52
RDBSHR
V04-000
                                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742 
LLOADSS.SRCJRDBSHR.B32:1
                                                                BEGIN
SFREE (RAB = RAB);
LEAVE RDB_OPEN;
     27778901232888889012329998901
2222222222222222223301
                                ID_ATTRIB = .REC_BUFFER[KGB$L_ATTRIBUTES];
                                                            Now read all holder records to make sure that the specified holder doesn't already exist.
                                                        RAB[RAB$V_RLK] = 0;

RAB[RAB$V_ULK] = 0;

RAB[RAB$V_WAT] = 0;

RAB[RAB$V_RRL] = 1;

RAB[RAB$V_NLK] = 1;

RAB[RAB$V_LIM] = 1;

RAB[RAB$B_RAC] = RAB$C_SEQ;

WHILE 1 DO

BEGIN

STATUS = $GET_(RAB = RAB$C_SEQ;
                                                                 STATUS = $GET (RAB = RAB);
                                                                 IF .STATUS EQLU RMS$_EOF OR .STATUS EQLU RMS$_OK_LIM THEN EXITLOOP; IF NOT .STATUS
                                                                 THEN
                                                                         BEGIN
SFREE (RAB = RAB);
                                                                         LEAVE RDB_OPEN;
     302
303
304
305
                                                                 IF CHSEQL (KGB$S_HOLDER, HOLDER_ID[O], KGB$S_HOLDER, REC_BUFFER[KGB$Q_HOLDER])
                                                                 THEN
                                                                         STATUS = SS$_DUPIDENT;
$FREE (RAB = RAB);
LEAVE RDB_OPEN;
     306
307
308
309
310
                                                                         END:
                                                                 END:
                                0310
0311
                                                            Finally build and write the new holder record.
                                0312
0313
03145
03116
03116
03118
03312
03322
03322
03322
03322
03322
03322
03322
03322
03322
03322
03322
03322
03322
                                                        RAB[RAB$B_RAC] = RAB$C_KEY;
RAB[RAB$W_RSZ] = KGB$K_HOLD_RECORD;
RAB[RAB$L_RBF] = REC_BOFFER;
REC_BUFFER[KGB$L_IDENTIFIER] = .LOC_ID;
REC_BUFFER[KGB$L_ATTRIBUTES] = .LOC_ATTRIB AND .ID_ATTRIB;
CH$MOVE (KGB$S_HOLDER, HOLDER_ID[O], REC_BUFFER[KGB$Q_HOLDER]);
STATUS = $PUT (RAB = RAB);
     314
315
     316
317
     $FREE (RAB = RAB);
                                                         END:
                                                    Close the rights database if there is no image
                                                IF .CLOSE THEN EXESCLOSE_RDB();
IF .STATUS
                                                 THEN
                                                         RETURN SS$_NORMAL
                                            2 ELSE
```

RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS\$ADD_HOLDER - add holder to RDB 14-Sep-1984 12:40:52 VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1 RDBSHR Page V04-000 (2) RETURN .STATUS: ! End of routine SYS\$ADD_HOLDER .TITLE RDBSHR RDBSHR - Rights database loadable system 1404-0001 . IDENT EXESOPEN RDB, EXESCLOSE_RDB EXESSFINISH RDB EXESALOPIIMAG, EXESVAL IDNAME EXESSET RDIPTR, SYSSCMRRNL CTLSGL RDIPTR, CTLSGL_IMGHDRBF EXEST ID_UPCASE SYSSFIND, SYSSGET SYSSFREE, SYSSPUT .EXTRN .EXTRN .EXTRN .EXTRN

0044

.EXTRN .EXTRN .EXTRN

.PSECT SCODES, NOWRT. 2 03FC 00000 .ENTRY SYSSADD_HOLDER, Save R2,R3,R4,R5,R6,R7,R8,-0161 SYSSGET, R9 -132(SP), SP 0000000G 00002 MOVAB CE AC AE OB 57 MOVAB ID, LOC_ID LOC_ID, R7 0216 04 0000E MOVL 00013 DO MOVL 00017 BGEQ R7, #-1879048193 00019 8FFFFFFF 0219 CMPL 0F35707CC004C 00020 BLEQU 00022 BRB R7, #1073741823 0221 3FFFFFFF CMPL 0002B **BGTRU** 0002D TSTL 0002F BEQL HOLDER, LOC_HOLDER #0, #8, (LOC_HOLDER) 3\$ 08 DO 00031 25: MOVL 0223 0C 12 00 60 00035 PROBER 00039 BNEQ #12. RO 50 0003B MOVI. 0003E RET AE AD 8F (LOC HOLDER), HOLDER ID 4(LOC HOLDER), HOLDER ID+4 HOLDER ID, #1073741823 DO 0003F 3\$: 60 AE OB AE OS MOVL 00043 DO MOVL 3FFFFFF D1 00048 CMPL 00050 BGTRU 57 70 0228 CMPL HOLDER_ID, R7 BEQL AD 06 8F HOLDER_ID+4 0229 FC TSTL BEQL 00050 48: #8740, RO 0231 50 2224 MOVZWL 00062 RET ATTRIB, LOC_ATTRIB 00 MOVL 00067 0006E 00070 FFFFFFE BITL BEQL 04 #20, RO 50 MOVL 00073 RET 0247 00 00 MOVC5 #0, (SP), #0, #68, \$RMS_PTR 6E 4401 BO 00070 38 MOVW AE #17409, \$RMS_PTR

.EXTRN

RDBSHR 704-000	SYS\$ADI	D_HO	phts databa DER - ad	ise id h	loadable s older to f	RDB	n se	rvic 1	-Sep-			Page (2)
			3¢	AE	00100008	8F 01	90	00083 0008B		MOVE	#1048584, \$RMS_PTR+4 #1, \$RMS_PTR+30 #48, \$RMS_PTR+32 REC_BUFFER, \$RMS_PTR+36 HOLDER_ID, \$RMS_PTR+48 #4, \$RMS_PTR+52 SP	:
			56 58 50 68	AE AE AE AE	08	30 AE	BÔ 9E	0008F 00093		MOVW	#48, SRMS PTR+32 REC BUFFER, SRMS PTR+36	
			68 60	AE	08 70	AE 04	9E	00098 0009D		MOVAB	HOLDER ID, SRMS PTR+48	
					3E	30EA6405A070406	0000EE00F04	00083 0008F 0009B 0009B 0009B 000AB 000AB 000BB 000BB 000BB 000BB 000BB 000BB 000BB		MOVL MOVB MOVAB MOVAB MOVB PUSHL PUSHAB PUSHL CALLS	#1	0248
			000000006	9F		04	FB	BACCO AACCO		CALLS	-(SP) #4, @#EXE\$OPEN_RDB	
				03			D0 E8 31	000B1		MOVL BLBS BRW PUSHAB	RO, STATUS STATUS, 7\$	0249
			00000000	00	38	OOD3	9F	000BA	78:	PUSHAB	16\$ RAB	0257
			000000006	56		01 50	FB DO D1	00000		MOVL	#1, SYS\$FIND RO, STATUS	
			00018282	8F	2156	50 56 05 8F 56	12	000C7		CMPL BNEQ	STATUS, #98994 8\$	0258
				56 03	21EC		12 30 E8 31	000D0	85:	MOVZWL BLBS	#8684, STATUS STATUS, 9\$	0259
			30	AE	00100008	SF	CA	000DB	9\$:	BRW BICL2 BISB2 MOVAB PUSHAB	14\$ #1048584, RAB+6 #14, RAB+6	026
			3C 3E 68	AE AE	04 38	AE	9E	000E7		MOVAB	LOC_ID, RAB+48	0268 0268 0269 0270
				69 56 8F	36	01	FB	OOOEF		CALLS	#1. SYSSGET RO, STATUS	0270
			000182B2	8F		56	D1	000F5		CMPL BNEQ	STATUS, #98994	0271
				56	21EC	8F	30	000FE	105.	MOVZWL BLBC	#8684, STATUS STATUS, 13\$ REC_BUFFER+4, ID_ATTRIB #14, RAB+6 #1064968, RAB+5 RAB+30 RAB #1, SYS\$GET	027
			36	6C 54	00	AE	DÓ	00106	100.	MOVL BICB2	REC_BUFFER+4, ID_ATTRIB	0278
			3E 3C	AE	00104008 56 38	8F	(8 94	0010E		BISL2	#1064968, RAB+5	0272 0278 0286 0286 0290
				69	38	AE 01	9F FB	00119 00110	115:	PUSHAB	RAB #1. SYS\$GET	0293
			0001827A	69 56 8F		50	DO D1	0011F 00122		MOVL	STATUS, #98938	0294
			00018051	8F		1B 56	13	00129 0012B		BEQL	STATUS, #98385	
				3B AE		00 00 00 00 00 00 00 00 00 00 00 00 00	13 E9	00005 0000B 0000E7 0000E7 0000E7 0000F5 0000F0 00110A 0011129 001134		MOVE BICB2 BISL2 CLRB PUSHAB CALLS MOVE CMPL BEQL CMPL BLBC CMPC3 BNEQ MOVZWL	176	0295
	10	AE	70			08 DA	E9 12 30	00137 0013D		CMPC3 BNEQ	STATUS, 13\$ #8, HOLDER_ID, REC_BUFFER+8 11\$ #8748, STATUS 13\$	
				56		8F 2C	3C	0013F 00144		BRB	#8748, STATUS	0304
			56 5A 60 08	AE		10 AE 57	B0	0014A	12\$:	BRB MOVB MOVW MOVAB	#1, RAB+30 #16, RAB+34	0304 0305 0313 0314 0315 0316
			08	AE	08		DO	00153		MONT	R7, REC_BUFFER	0316
	0C 10	AE AE	76	AE AE SO SAE		54 50 08 AE 01	90 90 90 90 90 90 90 90 90 90 90 90 90 9	00134 00137 0013D 0013F 00146 0014A 00157 00157 00168		MOVL MCOML BICL3 MOVC3 PUSHAB CALLS	#1, RAB+30 #16, RAB+34 REC_BUFFER, RAB+40 R7, REC_BUFFER ID_ATTRIB, R0 RO, LOC_ATTRIB, REC_BUFFER+4 #8, HOLDER_ID, REC_BUFFER+8	
	10	AE	7C 00000000G	00	38	AE	9F FB	00165		PUSHAB	ROT LOC ATTRIB, REC BUFFER+4 #8, HOLDER_ID, REC_BUFFER+8 RAB #1, SYS\$PUT	0318 0319

RD VO

RDBSHR V04-000	RDBSHR - Rights databa SYS\$ADD_HOLDER - ad	ase loadable system dd holder to RDB	servic 16-Sep-1984 01:48:50 14-Sep-1984 12:40:52	VAX-11 Bliss-32 V4.0-742 [LOADSS.SRC]RDBSHR.B32;1	Page 9
	00000000G 00000000G	56 00 07 9F 04 50 50 56	FB 00175 E9 0017C 14\$: BLBC CLC FB 0017F CALLS #0 E9 00186 15\$: BLBC STA D0 00189 MOVL #1 04 0018C RET	STATUS B SYSSFREE OSE, 15S OMEXESCLOSE_RDB ATUS, 16S RO ATUS, RO	0320 0326 0327 0331

50

: Routine Size: 401 bytes. Routine Base: \$CODE\$ + 0000

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RDI
```

```
RDBSHR
V04-000
                       RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$ADD_IDENT - add identifier to RDB 14-Sep-1984 12:40:52
                                                                                                                              VAX-11 Bliss-32 V4.0-742
LLOADSS.SRCJRDBSHR.832;1
                                  %SBTTL 'SYS$ADD IDENT - add identifier to RDB' GLOBAL ROUTINE SYS$ADD_IDENT (NAME, ID, ATTRIB, RESID) =
                      FUNCTIONAL DESCRIPTION:
                                              This routine creates the identifier of the specified name. If an explicit identifier code is given, it is used; otherwise
                                              the next available general code is used.
                                     CALLING SEQUENCE:
                                              SYSSADD_IDENT (NAME, ID, ATTRIB, RESID)
                                     INPUT PARAMETERS:
                                              NAME:
                                                         address of the identifier name character
                                                         string descriptor
                                                          (optional) identifier longword to associate with 'name'
                                              ATTRIB: (optional) attributes longword to grant to the identifier
                                     IMPLICIT INPUTS:
                                              NONE
                                     OUTPUT PARAMETERS:
                                              RESID:
                                                         (optional) address of a longword to return the assigned
                                                         identifier
                      0360
0361
0362
0363
0364
0365
0366
0367
0368
0370
0371
0373
0376
0377
0378
0379
                                     IMPLICIT OUTPUTS:
                                              NONE
                                     ROUTINE VALUE:
                                              success or failure status
                                     SIDE EFFECTS:
                                              identifier record created
                                  BEGIN
    376
377
                                  LOCAL
                                                                                              local copy of NAME
output from EXESVAL_IDNAME
output from EXESVAL_IDNAME
local copy of ID
identifier code to use
local copy of ATTRIB
                                              LOC_NAME
                                                                     : REF VECTOR.
    378
379
381
383
383
388
388
388
390
391
392
                                              LENGTH
                                                                       LONG.
                                              ADDRESS
                                                                        LONG.
                                              LOC ID
IDENTIFIER
                                                                        LONG.
                                                                        LONG.
                       0380
0381
0382
0383
                                              LOC_ATTRIB
LOC_RESID
STATUS
                                                                        LONG.
                                                                                               local copy of RESID
                                                                        LONG.
                                                                        LONG.
                                                                                              general status value
                                              CLOSE
                                                                        LONG.
                                                                                               call to EXESCLOSE_RDB required flag
                       0384
0385
                                                                        SRAB_DECL
                                                                                              RAB for record operations
                                              RAB
                                                                       SBBLOCK [RABSS RFA]
                                              MAINT_RFA
                       0386
0387
0388
0389
0390
                                                                                              RFA of maintenance record
                                                                     : $BBLOCK [KGB$K MAINT RECORD],
                                              REC_BUFFER
                                                                    : $BBLOCK [KGB$S NAME]
! name key buffer
                                              NAME_BUFFER
```

Page

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RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$ADD_IDENT - add identifier to RDB 14-Sep-1984 12:40:52
RDBSHR
                                                                                                                     VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1
V04-000
   393
394
395
                    LABEL
                                          RDB_OPEN:
                                                                                     ! rights database is open in this block
   396
397
398
399
                                  Validate parameters
   400
401
402
403
404
405
406
407
408
410
411
                                LOC_NAME = .NAME:
                               STATUS = EXESVAL IDNAME( .LOC NAME; LENGTH, ADDRESS);
IF NOT .STATUS THEN RETURN .STATUS;
CHSTRANSLATE (EXEST_ID_UPCASE, .LENGTH, .ADDRESS, ' ', KGBSS_NAME, NAME_BUFFER);
                               LOC_ID = .ID:
IF T.LOC_ID AND UICSM_ID_FORM_FLAG) NEQU 0
                               THEN
                                     (IF (.LOC_ID GTRU UIC$K_LAST_ID) THEN RETURN SS$_!VIDENT)
                               ELSE
                                     (IF (.LOC_ID GTRU UIC$K_MAX_UIC) THEN RETURN SS$_IVIDENT);
   412 413 414 415
                                LOC_ATTRIB = .ATTRIB;
                               IF T.LOC_ATTRIB AND NOT KGBSM_VALID_ATTRIB) NEQU O THEN RETURN SS$_BADPARAM;
                               LOC_RESID = .RESID;
   416
                               IF .LOC_RESID NEQU O AND NOT PROBEW (%REF(0), %REF(4), .LOC_RESID)
                               THEN
   RETURN SS$_ACCV10;
                                 Get the rights database open for write.
                               $RAB_INIT (RAB = RAB,
                  0000000
                                              RAC = KEY,
                                              KRF = 0.
                                              KSZ = 4
                                              KBF = UPLIT (0),
                                              ROP = (WAT, RLK, ULK),
USZ = KGB$K MAINT RECORD,
                                              UBF = REC_BOFFER
                               STATUS = EXESOPEN RDB (0, 1, RAB[RAB$W_ISI], CLOSE);
IF NOT .STATUS THEN RETURN .STATUS;
                               RDB_OPEN:
                                     BEGIN
                                       first read the maintenance record to interlock the entire operation.
                                     STATUS = $GET (RAB = RAB);
IF NOT .STATUS
                                     THEN
                                          BEGIN
SFREE (RAB = RAB);
                                          LEAVE RDB_OPEN:
                                     CH$MOVE (RAB$S_RFA, RAB[RAB$W_RFA], MAINT_RFA);
```

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RDBSHR
V04-000
                                                                                                                                        16-Sep-1984 01:48:50
14-Sep-1984 12:40:52
                                  RDBSHR - Rights database loadable system servic SYSSADD_IDENT - add identifier to RDB
                                                                                                                                                                                            VAX-11 Bliss-32 V4.0-742
LLOADSS.SRCJRDBSHR.B32;1
                                                                                                                                                                                                                                                                         Page
                                                               Now see if the specified name is already in use.
      450
451
453
453
455
456
457
458
                                 RAB[RAB$V_WAT] =
RAB[RAB$V_ULK] =
RAB[RAB$V_RLK] =
RAB[RAB$V_NLK] =
RAB[RAB$V_RRL] =
                                                           RAB[RAB$B KRF] = 2;

RAB[RAB$B KSZ] = KGB$S NAME;

RAB[RAB$L KBF] = NAME_BUFFER;

STATUS = $FIND (RAB = RAB);

IF .STATUS THEN STATUS = S$$_DUPLNAM;

IF .STATUS NEQU RMS$_RNF
      460
461
462
463
464
465
466
469
470
471
                                                            THEN
                                                                   BEGIN
SFREE (RAB = RAB);
LEAVE RDB_OPEN;
                                                            If an explicit identifier is given, see if it is in use.
      473
473
474
475
476
477
478
481
483
484
487
488
489
491
                                                           RAB[RAB$B_KRF] = 0;
RAB[RAB$B_KSZ] = 4;
                                                            IF .LOC_ID NEQU O
                                                                    BEGIN
RAB[RAB$L_KBF] = LOC_ID;
STATUS = $FIND (RAB = RAB);
IF .STATUS THEN STATUS = S$$_DUPIDENT;
IF .STATUS NEGU RMS$_RNF
                                                                    THEN
                                                                            BEGIN
SFREE (RAB = RAB);
                                                                             LEAVE ROB OPEN;
                                                                    IDENTIFIER = .LOC_ID:
                                                                    END
                                                               Otherwise we have to select an identifier.
      492
493
494
495
                                                           ELSE
      496
497
498
499
                                                                    IDENTIFIER = .REC_BUFFER[KGB$L_NEXT_ID];
                                                                        Attempt to get the record pointed to by the new identifier. If it exists, keep incrementing until a free identifier is found. Wrap the identifier value when it overflows.
       500
501
502
503
```

504 505

506

RAB[RAB\$L KBF] = IDENTIFIER; WHILE 1 DO

IF . IDENTIFIER GTRU UICSK_LAST_ID

BEGIN

RDI VO

```
ROEVO
```

(3)

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$ADD_IDENT - add identifier to RDB 14-Sep-1984 12:40:52
RDB5HR
V04-000
                                                                                                                                                         VAX-11 Bliss-32 V4.0-742 
LLOADSS.SRCJRDBSHR.B32;1
                           THEN
                                                               IDENTIFIER = UICSK FIRST_ID;
STATUS = $FIND (RAB = RAB);
                                                              IF NOT .STATUS
                                                                     IF .STATUS EQLU RMSS_RNF
                                                                            EXITLOOP
                                                                     ELSE
                                                                            BEGIN

$FREE (RAB = RAB);

LEAVE RDB_OPEN;

END;
                                                             IDENTIFIER = .IDENTIFIER + 1;
END;
                                                           Write back the maintenance record with an updated next identifier
                                                           value. Note that while we increment the identifier here, it is
                                                           not necessary to wrap it, since that is done in the check above.
                                                       REC_BUFFER[KGB$L_NEXT_ID] = .IDENTIFIER + 1;
RAB[RAB$B_RAC] = RAB$C_RFA;
CH$MOVE (RAB$S_RFA, MAINT_RFA, RAB[RAB$W_RFA]);
STATUS = $FIND (RAB = RAB);
IF NOT .STATUS
                                                        THEN
                                                             BEGIN

$FREE (RAB = RAB);

LEAVE RDB_OPEN;
                                                        STATUS = SUPDATE (RAB = RAB);
                                                        IF NOT .STATUS
                                                        THEN
                                                              SEGIN
SFREE (RAB = RAB);
                                                              LEAVE RDB_OPEN;
                                                              END:
                                                       END:
                                                IF .LOC_RESID NEQU O THEN .LOC_RESID = .IDENTIFIER;
                                                    Finally create the new identifier record and write it.
                                                REC_BUFFER[KGB$L_IDENTIFIER] = .1DENTIFIER;
REC_BUFFER[KGB$L_ATTRIBUTES] = .LOC_ATTRIB;
CH$FILL (0, KGB$$ HOLDER, REC_BUFFER[KGB$Q_HOLDER]);
CH$MOVE (KGB$$_NAME, NAME_BUFFER, REC_BUFFER[KGB$T_NAME]);
RAB[RAB$B_RAC] = RAB$C_KEY;
RAB[RAB$W_RSZ] = KGB$K_IDENT_RECORD;
RAB[RAB$L_RBF] = REC_BUFFER;
STATUS = $PUT (RAB = RAB);
$FREE (RAB = RAB);
                                                 SFREE (RAB = RAB);
```

RDBSHR V04-000	RDBS	SHR - Richard	ghts datab	ase d id	loadable s	yster o RDE	50	rvic j	J 8 6-Sep-19 4-Sep-19	984 01:48 984 12:40	B:50 VAX-11 Bliss-32 V4.0-742 Pa D:52 [LOADSS.SRC]RDBSHR.B32;1	ige 14
564 565 566 567 568 570 571 572 573 574 576	056 056 056 056 056 056 056 057 057	IF THEIR ELSI	CLOSE THE STATUS RETURN SS E RETURN .S	N EX			her			routine	SYS\$ADD_IDENT	
										.PSECT	\$PLIT\$,NOWRT,NOEXE,2	
					0	00000	000	00000	P.AAA:	.LONG	0	
										.EXTRN	SYS\$UPDATE	
										.PSECT	SCODES, NOWRT, 2	
				58 5E 51 56 03	00000000G	00 CE AC 9F 50	9E 9E 00 16	0000E 00012 00018 0001B		.ENTRY MOVAB MOVAB MOVL JSB MOVL BLBS	SYS\$ADD IDENT, Save R2,R3,R4,R5,R6,R7,R8,- R9,R10,R11 SYS\$FIND, R11 -184(SP), SP NAME, LOC_NAME AMEXESVAL IDNAME R0, STATUS STATUS, 1\$	0335 0398 0399 0400
000000006	00	20	0¢	62 AE AE 57	08	01 CA 51 20 AC AE 09 57	51 2E 00 00 18	0002A	15:	MOVIC MOVL MOVL BGEQ CMPL	21\$ LENGTH, (ADDRESS), #32, EXEST_ID_UPCASE, - #32, NAME_BUFFER ID, LOC_ID LOC_ID, R7 2\$ R7, #-1879048193 3\$ R7, #1073741823	0401 0403 0404
			3FFFFFFF	8F 8F 50		57 57 57 06 8F	D1 1B 3C	00038 0003F 00041 00048 0004A 0004F	28: 38:	CMPL BRB CMPL BLEQU MOVZWL RET	R7, #-1879048193 3\$ R7, #1073741823 4\$ #8740, R0	0406
			FFFFFFE	59 8F 50		AC 59 04 14	04003300	00054	48:	MOVL BITL BEQL MOVL RET	ATTRIB LOC_ATTRIB LOC_ATTRIB, #-2 5\$ #20, RO	0410 0411
				58		558 05A 004 004	04 00 04 05 15 06	00067	58:	MOVL CLRL TSTL BEQL INCL PROBEW BNEQ MOVL	RESID, LOC_RESID R10 LOC_RESID 6\$ R10	0413 0414
		68		50		00 04 00	00	0006b 00071 00073		PROBEW BNEQ MOVL	#0. #4. (LOC_RESID) 6\$ #12. RO	0416

RDBSHR V04-000		RDBSHR - SYS\$ADI	- Ri	ghts databa ENT - add	d id	loadable s entifier t	o RDB	servic 1	6-Sep-	1984 01:48 1984 12:40	3:50 VAX-11 Bliss-32 V4.0-742 0:52	Page 1
0044	BF		00		6E	74	00	04 00076 20 00077 00076	68:	RET MOVC5	#0, (SP), #0, #68, \$RMS_PTR	042
				74 78 DA DC EC FO	AE AD AD AD AD	000E0000 40	00E88F08EF05EE0	BO 00086 90 00086 90 00086 9E 00097 9E 00097 9E 00097 9D 00086 PE 000		MOVUMOVE MOVE MOVAB MOVAB MOVAB MOVAB PUSHL PUSHAB PUSHA CALLS MOVL BLBS BRW PUSHAB	#17409, \$RMS PTR #917504, \$RMS PTR+4 #1, \$RMS PTR+30 #64, \$RMS PTR+32 REC_BUFFER, \$RMS PTR+36 P.AXA, \$RMS PTR+48 #4, \$RMS_PTR+52 \$P	
						7A	AE 01	9F 000A8		PUSHL PUSHL PUSHL	#1	043
				0000000G	9f 56 03		7E 04 50 56 012C	FB 000AF D0 000B6		CLRL CALLS MOVL	-(SP) #4, @#EXE\$OPEN_RDB R0. STATUS STATUS, 7\$	043
				00000000G	00 56 03	74	UI	E8 000B9 31 000B0 9F 000BF FB 000C2 D0 000C9	78:	BRW PUSHAB CALLS	RAB W1. SYSSGET	043
					03		50 56 00FE	E8 000CG	88:	BLBS	RO, STATUS STATUS, 98 198	044
		60	AE	CC 7A 78 FO EC	AE AE AD AD	00100008 0220 0C 74	06 08 8 8 8 AE 01 55 6	E8 000C6 31 000C6 28 000D6 8A 000D6 C8 000D6 9E 000E4 9F 000E6	8\$: 9\$:	CALLS MOVL BLBS BRW MOVC3 BICB2 BISL2 MOVW MOVAB PUSHAB	#6, RAB+16, MAINT_RFA #14, RAB+6 #1048584, RAB+6 #544, RAB+52 NAME_BUFFER, RAB+48 RAB	044 045 045 045 045
					6B 56 04 56	74	AE 01 50 56 8F	9F 000EF FB 000F3 D0 000F3 E9 000F8 9A 000FB		PUSHAB CALLS MOVL BLBC MOVZBL	RAB #1, SYS\$FIND RO, STATUS STATUS, 10\$ #148, STATUS STATUS, #98994	046
				00018282	8F		C7	D1 000FF 12 00106	10\$:	CMPL BNEQ	STATUS, #98994 8\$	046
				FO	AD		04 57	B0 00108 05 00100		TSTL	8\$ #4, RAB+52 R7 12\$	047 047
				EC	AD 68	74	AE AE 01	B0 00108 D5 00100 13 0010E 9E 00110 9F 00115 FB 00118		MOVAB PUSHAB CALLS	LOC_ID, RAB+48 RAB #1, SYS\$FIND	047 047
				00018282	68 56 05 56 8F	222C	50 56 8F	9E 00116 9F 00118 D0 00118 E9 00118 3C 00121 D1 00126 12 00127 11 00133	115:	CMPL BNEQ MOVW TSTL BEQL MOVAB PUSHAB CALLS MOVL BLBC MOVZWL CMPL BNEQ MOVL	LOC_ID, RAB+48 RAB #1, SYS\$FIND RO, STATUS STATUS, 11\$ #8748, STATUS STATUS, #98994	047 048
				08	AE		A0 57	12 00120 00 0012F		BNEG	8\$ R7 IDENTIFIER 17\$	
				08 EC 8FFFFFF	AE AD 8F		2AE1055856074EEE8FE1	11 00133 00 00135 9E 00134 01 0013F	12 \$:	BRB MOVL MOVAB	17\$ REC BUFFER+60, IDENTIFIER IDENTIFIER, RAB+48 IDENTIFIER, #-1879048193 14\$	048 047 049 050 050
				08		80010000	08 8F AE 01	DO 00135 9E 00136 D1 00137 1B 00147 D0 00149 9F 00151 FB 00154 D0 00157 E8 00156	148:	CMPL BLEQU MOVL PUSHAB CALLS	#-2147418112. IDENTIFIER	050 050
					6B 56 0B		50 56	DO 00157 E8 0015A		MOVL	RAB #1, SYS\$FIND RO, STATUS STATUS, 15\$	050

V04-000		313000	_100	hts databa NT - add		1101 00	NVB			4-26h-		:50 YAX-11 Bliss-32 V4.0-742 :52 [LOADSS.SRC]RDBSHR.B32;1	Page 16 (3)
				00018282	8F		56 07	D1	0015D 00164 00166		BEGL	STATUS, #98994	: 0511
						08	68 AE D2	11	00166	15\$:	BRB INCL	16\$ 19\$ IDENTIFIER	0516 0520 0502 0528 0529 0530
		4.0	AE	0.0	AF	00	05	11	0016B		BRB	15\$	0502
		68	AE	08 DA 6C	AE AD AE		95	90	00160	168:	ADDL3 MOVB MOVC3	#1, IDENTIFIER, REC_BUFFER+60 #2, RAB+30	0529
		CC	AD	60	AE	74	06 AE	28 9F	00177 0017D		MOVC3 PUSHAB	#2, RAB+30 #6, MAINT_RFA, RAB+16 RAB	: 0530
					68 56 47		01	FB	00180		CALLS	#1. SYS\$FIND	
					47	34	56	Ę9	00186 00189		BLBC PUSHAB	RO, STATUS STATUS, 19\$	0532 0539
				0000000G	00	74	01	FB	00180		CALLS	RAB #1. SYSSUPDATE	0539
					00 56 37		50 56	DO E9	00193 00196 00199		BLBC	RO, STATUS STATUS, 198	0540
						0.9	5A	E9 DO	00199	178:	BLBC	STATUS, 198 R10, 188 IDENTIFIER, (LOC_RESID) IDENTIFIER, REC_BUFFER LOC_ATTRIB, REC_BUFFER+4 #0, (SP), #0, #8, REC_BUFFER+8	0540 0548
				30 20	04 68 AE AE 6E	08	AE AE 59	DO	0019C	18\$:	MOVL	IDENTIFIER, REC BUFFER	0553 0554
	08		00	30	6E		00	5C 00	001A5 001A9		MOVL MOVC5	#0, (SP), #0, #8, REC_BUFFER+8	0555
		30	AE	oc	AE	34	AE 20	28	001AE 001B0		MOVC3		0556
				DA	AD AD		01 30	28 90 B0	001B6 001BA		MOVB	#32, NAME_BUFFER, REC_BUFFER+16 #1, RAB+30 #48, RAB+34	0557
				DE E4	AD	2C	AE AE	9E	001BE		MOVAB	REC_BUFFER, RAB+40	0556 0557 0558 0559 0560
				000000006	00 56	74	01 50	FB	001C3 001C6		PUSHAB	#1, SYS\$PUT	0360
					56	74	50 AE	9F	001CD 001D0	198:	MOVL PUSHAB	RO. STATUS RAB	0561
				000000006	00		01 6E	FB E9	001D3 001DA		CALLS	#1. SYSSERFE	0567
				0000000G	9F		ÕÕ	FB	001DD	200	CALLS	CLOSE, 208 WO. aMEXESCLOSE_RDB	•
					50		00 56 01	E9	001E4 001E7	20\$:	BLBC	STATUS, 21\$ #1, R0	0568 0572
					50		56	04	001EA 001EB	215:	RET	STATUS, RO	•
								04	OOTEE		RET		: 0574

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$CREATE_RDB - create rights data base 14-Sep-1984 12:40:52
RDBSHR
V04-000
                                                                                                                                                        VAX-11 Bliss-32 V4.0-742
LLOADSS.SRCJRDBSHR.B32;1
                                         **SBTTL ' SYSSCREATE_RDB - create rights data base' GLOBAL ROUTINE SYSSCREATE_RDB (SYSID) =
    FUNCTIONAL DESCRIPTION:
                                                       This routine creates a new rights database. After creation the database contains the maintenance record and records for the
                                                       environmental rights.
                                             CALLING SEQUENCE:
SYSSCREATE_RDB (SYSID)
                                             INPUT PARAMETERS:
                                                       SYSID: (optional) address of the quadword system identifier
                                                                     to store in the maintenance record
                                             IMPLICIT INPUTS:
                                                       NONE
                                             OUTPUT PARAMETERS:
                                                       NONE
                                             IMPLICIT OUTPUTS:
                                                       NONE
                                             ROUTINE VALUE:
                                                       Status value of operation
                                             SIDE EFFECTS:
                                                       All active streams terminated, rights cache flushed, rights database created and opened
     611
                                         !--
    614
615
616
617
                                         BEGIN
                                         REGISTER
                                                                                   = 1:
                                                                                                                  size returned from EXESALOP1IMAG
                                                       SIZE
                                                       ADDRESS
                                                                                                                  address returned from EXESALOP1IMAG
    620
621
622
623
624
626
627
628
631
633
                                         LOCAL
                                                                                     REF VECTOR, local copy of SYSID general status value
BYTE, close rights database flag
$BBLOCK [KGB$K MAINT_RECORD],

Touffer to build maintenance record
                                                       LOC SYSID
                                                                                   : LONG.
                                                       CLOSE
                                                       MAINT_RECORD
                                                                                     SFAB DECL,
SRAB DECL,
SXABKEY DECL,
SXABKEY DECL,
SXABKEY DECL,
SXABPRO DECL,
VECTOR [2]
INITIAL (1,0);
                                                                                                                 FAB to create rights database
RAB for rights database
XAB for primary key (identifier)
XAB for holder key
XAB for name key
XAB for file protection
argument list for EXE$SET_RDIPTR
                                                       FAB
                                                       KEYO
                                                       KEY1
                                                       KEY2
                                                       PROTECT
                                                       ARGLIST
    634
```

RDB VO4

```
16-Sep-1984 01:48:50
14-Sep-1984 12:40:52
RDBSHR
V04-000
                           RDBSHR - Rights database loadable system servic SYSSCREATE_RDB - create rights data base
                                                                                                                                                        VAX-11 Bliss-32 V4.0-742
ELOADSS.SRCJRDBSHR.B32;1
                                                                                                                                                                                                                      Page
                                         LABEL
     6356378901234456666555789
64456666666655789
                           RDB_OPEN;
                                                                                                              ! rights database is open in this block
                                             Validate parameters
                                         LOC_SYSID = .SYSID;
IF .LOC_SYSID NEQU O AND NOT PROBER (TREF(0), TREF(8), .LOC_SYSID)
                                         THEN
                                                RETURN SS$_ACCVIO;
                                            Do not open if file already exists
                                                         (FAB = FAB,
FNM = 'RIGHTSLIST',
DNM = 'SYS$SYSTEM: DAT',
                                         SFAB_INIT
                                                            FAC = GET,
SHR = (GET, PUT, DEL, UPD) );
                                         STATUS = SOPEN(FAB=FAB);
IF .STATUS THEN
                                              RETURN RMS$_FEX;
                                            Allocate RDI if it has not been allocated already
    660
661
662
663
                                         IF .CTL$GL_RDIPTR EQLU 0 THEN
     664
                                               STATUS = EXESALOPIIMAG (RDISS RDIDEF; SIZE, ADDRESS);
IF NOT .STATUS THEN RETURN SSS_INSFMEM;
.ADDRESS = .SIZE;
ARGLIST[1] = .ADDRESS;
STATUS = SYSSCMKRNL(EXESSET_RDIPTR, ARGLIST);
IF NOT .STATUS THEN RETURN .STATUS;
CHEETIL (O DDIES DDIDEF-4 (TIEGI RDIPTR+4);
     665
     666
     667
     668
669
670
                                                CH$FILL (O, RDI$S_RDIDEF-4, .CTL$GL_RDIPTR+4);
                                            Else Close out all active streams to the rights database
                                                EXESCLOSE_RDB();
    680
681
682
683
684
685
686
687
688
689
690
                                            Now set up the FAB and XAB's and create the file.
                                        $FAB_INIT (FAB = FAB,

FNM = 'RIGHTSLIST',

DNM = 'SYS$SYSTEM:.DAT',
                                                            ORG = IDX.
                                                           RFM = VAR,
MRS = KGB$K_MAINT_RECORD,
BKS = 2048,
XAB = KEYO,
FOP = (CBT, DFW),
                           0684
0685
0686
0687
```

```
8 9
16-Sep-1984 01:48:50
14-Sep-1984 12:40:52
RDBSHR
V04-000
                             RDBSHR - Rights database loadable system servic SYS$CREATE_RDB - create rights data base
                                                                                                                                                                VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1
                                                                                                                                                                                                                                 Page
                            FAC = (GET, PUT, DEL, UPD),
SHR = (GET, PUT, DEL, UPD)
                                           FAB[FAB$V_LNM_MODE] = PSL$C_EXEC;
                                          $XABKEY_INIT (

XAB = KEYO,

KREF = 0,

KNM = UPLIT BYTE ('IDENTIFIER

POS = $BYTEOFFSET (KGB$L_IDENTIFIER),

SIZ = 4,

DTP = BN4,

FLG = DUP,

NXT = KEY1
                                                                                                                                                            1).
                                           SXABKEY_INIT (
                         PPPPPPPPP
                                                                XAB = KEY1,
                                                                KREF = 1
                                                                                                                                                            1),
                                                                KNM = UPLIT BYTE ('HOLDER
                                                               POS = $BYT(

SIZ = 8,

DTP = STG,

FLG = (DUP)

NUL = 0,

NXT = KEY2
                                                                          $BYTEOFFSET (KGB$Q_HOLDER),
                                                                         STG, NUL, CHG),
                                           SXABKEY_INIT (
                         99999999
                                                                XAB = KEY2.
                                                               KREF = 2,
KNM = UPLIT BYTE ('NAME
POS = $BYTEOFFSET (KGB$T_NAME),
                                                                                                                                                           1),
                                                               SIZ = KGB$S_NAME,
DTP = STG,
FLG = (NUL,CHG),
NUL = 0,
NXT = PROTECT
                         2220
                                           $XABPRO_INIT (
                                                                XAB = PROTECT,
                                                               PRO = (RWED, RWED, R, R),
UIC = (1,4)
                                           IF .CTLSGL_IMGHDRBF EQLU O
                                                  BEGIN
CLOSE = 1;
FAB[FAB$V_PPF] = 1;
                                                   END
                                           ELSE
                                           CLOSE = 0:
STATUS = $CREATE (FAB = FAB):
IF NOT .STATUS THEN RETURN .STATUS;
```

NDE VO4

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYSSCREATE_RDB - create rights data base 14-Sep-1984 12:40:52
                                                                                                                                                        VAX-11 Bliss-32 V4.0-742 [LOADSS.SRC]RDBSHR.832;1
RDBSHR
V04-000
                          0746
0747
0748
0749
0750
0751
0753
0754
                                         RDB_OPEN:
     749
750
751
752
753
755
756
757
                                                 CTL$GL_RDIPTR[RDI$L_IFI_WRITE] = .FAB[FAB$W_IFI];
                                                   Now set up and connect a RAB, and write the maintenance record.
                                                $RAB_INIT (RAB = RAB
                                                                   FAB = FAB.
     758
759
                                                                   RAC = KEY
                          0756
0756
0757
0758
0759
0760
0761
0762
                                                                   RBF = MAINT_RECORD
     760
761
762
763
764
765
                                                                   RSZ = KGB$K_MAINT_RECORD
                                                STATUS = $CONNECT (RAB = RAB);
IF NOT .STATUS THEN LEAVE RDB OPEN;
VECTOR [CTL$GL_RDIPTR[RDI$L_I$I_VEC], 0] = .RAB[RAB$W_I$I];
     766
767
                           0764
0765
0766
0767
                                                CHSFILL (O, KGBSK MAINT RECORD, MAINT RECORD);
CHSMOVE (KGBSS_NAME, UPCIT BYTE ('SSMAINTENANCE_RECORD
MAINT_RECORD[KGBST_NAME]);
                                                                                                                                                                  1).
     768
     769
770
                                                IF .LOC_SYSID REQU O
                           0768
0769
0770
0771
0772
0773
0774
0775
0776
0777
     771
                                                THEN
     772
                                                       CHSMOVE (KGB$S_SYS_ID, .LOC_SYSID, MAINT_RECORD[KGB$Q_SYS_ID])
     774
                                                SGETTIM (TIMADR = MAINT_RECORD[KGB$Q_SYS_ID]);
MAINT_RECORD[KGB$W_LEVEL] = KGB$K_LEVEL1;
     775
     776
                                                MAINT_RECORD[KGB$L_NEXT_ID] = U1C$K_FIRST_ID;
     778
779
                                                STATUS = $PUT (RAB = RAB);
                                                IF NOT .STATUS THEN LEAVE RDB_OPEN;
     780
                                                 ! Create records for the environmental rights
                          0780
0781
0782
0783
0784
0785
0786
0787
0788
0789
0790
0791
0792
0793
     784
                                                RAB[RAB$W_RSZ] = KGB$K_IDENT_RECORD;
     785
                                                MAINT RECORD[KGB$L IDENTIFIER] = KGB$K BATCH_ID;
CH$MOVE (KGB$S_NAMF, UPLIT BYTE ('BATCH_MAINT_RECORD[KGB$T_NAME]);
STATUS = $PUT (RAB = RAB);
     786
     787
                                                                                                                                                                  .).
     788
     789
     790
                                                IF NOT .STATUS THEN LEAVE RDB OPEN;
     791
                                                MAINT RECORD[KGB$L IDENTIFIER] = KGB$K DIALUP_ID;
CH$MOVE (KGB$S_NAME, UPLIT BYTE ('DIALUP
MAINT RECORD[KGB$T_NAME]);
STATUS = $PUT (RAB = RAB);
     792
793
                                                                                                                                                                  1).
     794
795
     796
797
                                                IF NOT .STATUS THEN LEAVE RDB_OPEN;
                                                MAINT RECORD[KGB$L | IDENTIFIER] = KGB$K | INTERACTIVE | ID;
CH$MOVE (KGB$S_NAME, UPLIT BYTE ('INTERACTIVE MAINT_RECORD[KGB$T_NAME]);
STATUS = $PUT (RAB = RAB);
                           0795
0796
0797
     798
799
                                                                                                                                                                   1).
     800
801
802
803
804
805
                            0798
                                                 IF NOT .STATUS THEN LEAVE ROB_OPEN;
                            0800
                            0801
                                                 MAINT_RECORD[KGB$L_IDENT!FIER] = KGB$K_LOCAL_ID;
                                                                                                                                                                   ").
                            0802
                                                 CH$MOVE (KGB$S_NAME, UPLIT BYTE ('LOCAL
```

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Page

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 5YSSCREATE_RDB - create rights data base 14-Sep-1984 12:40:52
RDBSHR
                                                                                                                                      VAX-11 BLiss-32 V4.0-742 
LOADSS.SRC]RDBSHR.B32;1
V04-000
                                          STATUS = $PUT (RAB = RAB);
                        0803
0804
0805
0806
0807
0808
0810
0811
0813
0815
0816
0817
0818
    808
                                          IF NOT .STATUS THEN LEAVE RDB_OPEN:
                                          MAINT RECORD[KGB$L IDENTIFIER] = KGB$K NETWORK_ID;
CH$MOVE (KGB$S_NAME, UPLIT BYTE ('NETWORK
MAINT RECORD[KGB$T_NAME]);
STATUS = $PUT (RAB = RAB);
    810
                                                                                                                                               1),
                                          IF NOT .STATUS THEN LEAVE ROB_OPEN;
                                          MAINT RECORD[KGB$L IDENTIFIER] = KGB$K REMOTE_ID;
CH$MOVE (KGB$S_NAME, UPLIT BYTE ('REMOTE
MAINT RECORD[KGB$T_NAME]);
STATUS = $PUT (RAB = RAB);
                                                                                                                                               •).
                                          IF NOT .STATUS THEN LEAVE ROB OPEN;
    820
821
822
823
824
825
826
827
                                          STATUS = SS$_NORMAL:
                        0820
0821
0822
0823
                                     IF .CLOSE THEN EXESCLOSE_RDB();
                                    RETURN . STATUS;
                                                                                                 ! End of routine SYSSCREATE_RDB
                                                                                                                 .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                                            00004 P.AAB:
                                                                                                                              \RIGHTSLIST\
                                                                                                                 .ASCII
                                                                                     555542242242224242242242242242242242
                              4D
54
                                                                                                    P.AAC:
                                                                                            0000E
                                                                                                                 .ASCII
                                                                                                                              \SYS$SYSTEM: .DAT\
                  2E
                        3A
                                                                                           0001D P.AAD:
00027 P.AAE:
00036 P.AAF:
                                                                               45420F0010045
                                                                                                                 .ASCII
                                                                                                                              \RIGHTSLIST\
                                                                                                                 .ASCII
                                                                                                                             \SYS$SYSTEM: .DAT\
                                                                                                                 .ASCII
                                                                                                                             \IDENTIFIER
                                                                                           00045
                                                                         4C
20
                                                                                            00056
                                                                                                    P.AAG:
                                                                                                                 .ASCII
                                                                                                                             \HOLDER
                                                                                           00065
                                                                         4D
20
                                                                                                    P.AAH:
                                                                                                                 .ASCII
                                                                                                                             \NAME
                                                                                                    P.AAI: .ASCII \$$MAINTENANCE_RECORD
                                                                                           000B4
                                                                         20
                                                                                            000B6
                                                                                                    P.AAJ:
                                                                                                                .ASCII
                                                                                                                             \BATCH
                                                                                            000CS
                                                                                            000D4
                                                                         41
                                                                                           00006
                                                                                                    P.AAK: .ASCII \DIALUP
                                                                                            000E5
                                                                                            000F4
                                                                         54
                                                                                            000F6
                                                                                                    P.AAL:
                                                                                                                 .ASCII \INTERACTIVE
                                                                                           00116
                                                                         20
                                                                                                    P.AAM:
                                                                                                                 .ASCII \LOCAL
                                                                                                       . AAN:
                                                                                                                 .ASCII \NETWORK
```

RDB VO4	SHR -000			RDB	SHR SSCR	- RI	ghts RDB	dat	abase creat	loada e rig	ble s hts d	yste ata	m se base	rvic 1	5-Sep-19 4-Sep-19	84 01:48 84 12:40	1:50 VAX-11 BLiss-32 V4.0-742 Page 52:52 CLOADSS.SRCJRDBSHR.B32;1	ge (4)
20	20 20	20 20	20 20	20	50 50	20	20	20		4 4F	4D 20	2020	20200	00154 00156 00165 00174	P.AAO:	.ASCII	\REMOTE \	9 9 0 9
																.EXTRN	SYSSOPEN, SYSSCREATE SYSSCONNECT, SYSSGETTIM	
																.PSECT	\$CODE\$, NOWRT, 2	
													OFFC	00000		.ENTRY	SYS\$CREATE_RDB. Save R2.R3.R4.R5.R6.R7.R8	0576
									56 57 51	0000	0000° 0000G FDEC	CF 00 CE	9E 9E 0D 04 00	00002 00007 0000E		MOVAB MOVAB MOVAB PUSHL	R9,R10,R11 P.AAB, R11 SYS\$PUT, R10 -532(SP), SP	
											04	O1 AE	DD 04	00013		CLRL	ARGLIST+4	0611
									58		04	00 01 01 AE AC 598 00 04 00	D0 D4 D5	0001E		MOVL CLRL TSTL BEQL	SYSID, LOC_SYSID R9 LOC_SYSID 1\$	0638 0639
						68			08	1		00	D6 0C 12	00022 00024 00028		PROBER	R9 #0, #8, (LOC_SYSID) 1\$	
									50)		ÖC	D0 04 20	0002A		BNEQ MOVL RET	#12, RO	064
	0050	0	8F			00			68		FF70	00	20	0002E 00035	18:	MÖVC5	#0, (SP), #0, #80, \$RMS_PTR	0650
								FF7 8 8	O CO 6 AC F AC C AC)	FF70 5003 0F02	00 CD 8F 8F 02 6B	B0 B0 90 9E	00038 0003F		MOVW MOVW MOVAB	#20483, \$RMS PTR #3842, \$RMS PTR+22 #2, \$RMS PTR+31 P.AAB, \$RMS PTR+44	
							000	0000	4 AL		OA OFOA FF70	6B 8F CD 56 8F	80 96 96 96 96 96 90 90 90 90	00049 00040 00052 00058 0005C 00063		MOVAB MOVW PUSHAB CALLS MOVL BLBC	P.AAC. \$RMS_PTR+48 #3850, \$RMS_PTR+52 FAB #1. SYS\$OPEN RO. STATUS	065
									Ó8 5(0001	8282	56 8F	E 9	00066		BLBC	RO, STATUS STATUS, 2\$ #98946, RO	065 065
											0000G	9F	04	00069 00070 00071	25:	RET TSTL	a#CTL\$GL_RDIPTR	0659
									51			38	12 00 16	00071 00077 00079		BNEQ	5\$ #56, R1 a#EXESALOP1IMAG	0662
									56		0000G	50 50	D0 E8	00070		JSB MOVL BLBS	RO, STATUS	0447
									06 50		0124	8F	30	00088		MOVZWL	RO, STATUS STATUS, 3\$ #292, RO	066
								0	6 Al			51 52 5E		0008E 00091 00095	38:	RET MOVL MOVL PUSHL	SIZE, (ADDRESS) ADDRESS, ARGLIST+4 SP	0664 0665 0666
							000	0000	0G 91 56		00006	51 52 55 87 87 87 87	FB DO E8	0007C 00082 00085 0008B 0008E 00091 00095 00097 0009D 000A4 000AD		PUSHL CALLS MOVL BLBS	WEXESSET_RDIPTR #2, awsysscmkrnl r0, status status, 4\$	0667
									5(00006	0278 9F	31 DO	AA000	48.	BRW	16\$ a#CTL\$GL_RDIPTR, RO	0668

1085HR 104-000		RDBSHR - Rig	RDB - cr	se loadable eate rights	system se data base	rvic 16-Sep-1 14-Sep-1	984 01:48 984 12:40	3:50 VAX-11 Bliss-32 V4.0-742 CLOADSS.SRCJRDBSHR.B32;1	Page 23 (4)
	34	00		6E 0	00 20	000B4 000B9	MOVC5	#0, (SP), #0, #52, 4(RO)	e e
0050	8F	00	0000000G	9F 6E	07 11 00 FB 00 20	000BB 000BD 5\$: 000C4 6\$:	BRB CALLS MOVCS	6\$ #0, amexesclose_RDB #0, (SP), #0, #80, \$RMS_PTR	0659 0675 0691
			FF70 FF74 86 8D 8F 94 9C A0	CD 500 CD 0020002 AD 0F0 AD AD 00F AD 1 AD 2 AD 00400F0	8F B0 8F B0 20 90 02 90	000E8 000EC 000F2 000F7	MOVU MOVU MOVB MOVB MOVAB MOVAB MOVAB MOVAB	#20483, \$RMS PTR #2097184, \$RMS PTR+4 #3855, \$RMS PTR+22 #32, \$RMS PTR+29 #2, \$RMS PTR+31 KEYO, \$RMS PTR+36 P.AAD, \$RMS PTR+44 P.AAE, \$RMS PTR+48 #4198154, \$RMS_PTR+52 \$RMS PTR+62 #1, #0, #2, FAB+74 #0, (SP), #0, #76, \$RMS_PTR	
BA 004C	AD 8F	02		00 6E	8F D0 AD 94 01 F0 00 20	: 0010D	CLRB INSV MOVC5	\$RMS PTR+62 #1, #0, #2, FAB+74 #0, (SP), #0, #76, \$RMS_PTR	0692 0703
0040	8f	00	00F8 00FC 010A FF0E FF18	CE 4C1 CE 00A CE 040 CD 3	8F B0 04 90 2 AB 9E	00131 00137	MOVW MOVW MOVB MOVAB MOVC5	#19477, \$RMS_PTR KEY1, \$RMS_PTR+4 #1025, \$RMS_PTR+18 #4, \$RMS_PTR+46 P.AAF, \$RMS_PTR+56 #0, (\$P), #0, #76, \$RMS_PTR	0715
0040	8F	00	00AC 00B0 00BE 00C3 00CA 00DA 00E4	CE 4C1 CE 6 CE CE CE 5	07 B0 07 B0 01 90 08 B0 08 90 2 AB 9E	0 0014E 0 00153 0 00158 0 0015D 00162	MOVW MOVW MOVB MOVW MOVB MOVAB MOVCS	#19477, \$RMS PTR KEY2, \$RMS PTR+4 #7, \$RMS PTR+18 #1, \$RMS PTR+23 #8, \$RMS PTR+30 #8, \$RMS PTR+46 P.AAG, \$RMS PTR+56 #0, (\$P), #0, #76, \$RMS PTR	0727
0058	8F	00	60 64 72 77 7E 008E 0098	AE 4C1 AE AE AE CE CE 7	06 B0	0 0017C 0 00180 0 00184 0 00188 0 0018D	MOVW MOVW MOVW MOVW MOVB MOVAB MOVC 5	#19477, \$RMS_PTR PROTECT, \$RMS_PTR+4 #6, \$RMS_PTR+T8 #2, \$RMS_PTR+23 #16, \$RMS_PTR+30 #32, \$RMS_PTR+46 P.AAH, \$RMS_PTR+56 #0, (\$P), #0, #88, \$RMS_PTR	0733
			08 10 14	AE 581 AE EE0 AE 0001000 0000000	10 B0 20 90 20 90 AB 9E 00 20 AE 8F B0 8F B0 9F D5	0019C 001A2 001A8	MOVU MOVU TSTL BNEQ	#22547, \$RMS_PTR #-4608, \$RMS_PTR+8 #65540, \$RMS_PTR+12 @#CTL\$GL_IMGEDRRE	0735
			FF76	57 CD	01 90 04 88 02 11	00188 00188 00100	MOVB BISB2	7\$ #1. CLOSE #4. FAB+6 8\$	0738 0739 0735 0742 0743
			00000000G	00 56 03	04 88 02 11 57 94 01 FB 50 D0 56 E8	001B6 001B8 001BB 001C0 001C2 7\$: 001C4 8\$: 001C8	BRB CLRB PUSHAB CALLS MOVL BLBS	CLOSE FAB #1. SYSSCREATE RO. STATUS STATUS. 9\$	0742 0743

RDBSHR V04-000		RDBSHR SYSSCR	- RI	ghts databa RDB - cr	ese Test	loadable sys e rights dat	tem a ba	501 50	vic 16	-Sep-1 -Sep-1	984 01:48 984 12:40	3:50 VAX-11 Bliss-32 V4.0-742 CLOADSS.SRCJRDBSHR.B32;1	Page 24
0044	8F		00	08	50 A0 6E	FF72	4D 9F CD	31 00 30 20	001D5 001D8 001DF 001E5	98:	BRW MOVL MOVZWL MOVC5	16\$ a#CTL\$GL_RDIPTR, RO FAB+2, 8TRO) #0, (\$P), #0, #68, \$RMS_PTR	0748
				FF2C FF4A FF4E FF54 FF68	CDCDCD	40 C0	CD 8F 01 8F AD CD	80 90 98 9E 9E	001EF 001F6 001FB 00201 00207		MOVW MOVB MOVZBW MOVAB MOVAB PUSHAB	#17409, \$RMS PTR #1, \$RMS PTR+30 #64, \$RMS PTR+34 MAINT RECORD, \$RMS_PTR+40 FAB, \$RMS_PTR+60 RAB	
				000000006	00	FF70 FF2C	CD 01 50	9F FB DO	0020E 00212 00219			RAB #1. SYS\$CONNECT RO, STATUS	0760
0040	8F		00	ОС	6A 50 A0 6E	00000000G FF 2E	AD CD CD CD CD CD CD CD CD CD CD CD CD CD	E9030	0021C 0021F 00226 0022C		MOVL BLBC MOVI MOVI MOVI MOVI	STATUS, 128 a#CTL\$GL_RDIPTR, RO RAB+2, 12(RO) #0, (SP), #0, #64, MAINT_RECORD	076 076
		00	AD	0092	CB 07	CO	AD 20		00233		MOVC3	#32, P.AAI, MAINT_RECORD+16	0766
		F4	AD		68			28 E9 28	0023F 00244		BLBC MOVC3 BRB	R9. 108 #8. (LOC_SYSID), MAINT_RECORD+52 11\$	076
				00000000G FO FC	AD AD	0101 80010000 FF2C	08 0A AD 01 8F CD	9F FB BO DO 9F	00246 00249 00250	10 \$:	PUSHAB CALLS MOVW MOVL PUSHAB	MAINT RECORD+52 #1, STS\$GETTIM #257, MAINT RECORD+48 #-2147418112, MAINT_RECORD+60 RAB	077 077 077 077
		DO	AD	FF4E C0 00B2	6A 56 72 CD AD CB	80000001 FF2C	50 56 30 8F 20 CD	FB DO E9 BO	0025E 00262 00265 00268 0026B 00270 00278 0027F 00283		CALLS MOVL BLBC MOVW MOVL MOVC3 PUSHAB CALLS	#1, SYSSPUT RO, STATUS STATUS, 138 #48, RAB+34 #-2147483647, MAINT_RECORD #32, P.AAJ, MAINT_RECORD+16 RAB	0776 078 078 078 078
		DO	AD	0005	6A 56 6D AD CB	80000002 FF2C	56 8F 20	DO E9 DO 28 9F	00278 0027F 00283 00286 00289 0028C 00294 0029B	128:	MOVL BLBC MOVL MOVC3 PUSHAB CALLS	RO. STATUS STATUS, 148 #-2147483646, MAINT_RECORD #32, P.AAK, MAINT_RECORD+16 RAB	078 078 079 079
		DO	AD	00F 2	56 73 AD CB	80000003 FF2C	01 50 56 87 01 01 05 68 67 01	FB0908	00242 002A5 002A8 002B0 002B7 002BB 002BE 002C1		BLBC MOVL MOVC3 PUSHAB	#1, SYS\$PUT R0, STATUS STATUS, 15\$ #-2147483645, MAINT_RECORD #32, P.AAL, MAINT_RECORD+16 RAB	079 079 079 079
		DO	AD	0112	6A 56 57 AD CB	80000004 FF2C	50 56 8f 20 CD	FD ED 29 FB	002BB 002BE 002C1 002C4 002CC 002D3 002D7 002DA 002DD 002E0 002E8		MOVL BLBC MOVL MOVC3 PUSHAB CALLS	RO. STATUS STATUS, 158 #-2147483644, MAINT RECORD #32, P.AAM, MAINT_RECORD+16	0799 080 080 080
		DO	AD	0132	6A 56 3B AD CB	80000005		DO E9 DO 28	002DA 002E0 002E8	138:	MOVL BLBC MOVL MOVC3	#1. SYS\$PUT RO. STATUS STATUS, 158 #-2147483643, MAINT RECORD #32, P.AAN, MAINT_RECORD+16	080 080 080

RDBSHR V04-000	RDBSHR - Rights dat SYS\$CREATE_RDB -	tabase loadable create rights	system servic 16-Sep-1984 01:48:50 VAX-11 Bliss-32 V4.0-742 data base 14-Sep-1984 12:40:52 [LOADSS.SRC]RDBSHR.B32;1	Page 25 (4)
	DO AD 015	6A 56 1F 20 AD 8000000 CB FF2 6A 56 03 56	01 FB 002F3	0810 0811 0813 0815 0816 0816
	0000000	006 9F 50	56 E9 00315 BLBC STATUS, 15\$ 01 D0 00318 MOVL #1, STATUS 57 E9 0031B 158: BLBC CLOSE, 16\$ 00 FB 0031E CALLS #0, a#EXESCLOSE_RDB 56 D0 00325 168: MOVL STATUS, RO 04 00328 RET	0822 0823 0824

; Routine Size: 809 bytes, Routine Base: \$CODE\$ + 0380

```
RDB
VO4
```

```
RDB5HR
V04-000
                         RDB5HR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$FIND_HOLDER - search RDB for ident holde 14-Sep-1984 12:40:52
                                                                                                                                          VAX-11 Bliss-32 V4.0-742 CLOADSS.SRCJRDBSHR.B32;1
                                     *SBTTL * SYS$FIND_HOLDER - search RDB for ident holders'
    GLOBAL ROUTINE SYSSFIND_HOLDER (ID, HOLDER, ATTRIB, CONTXT) =
                                      144
                                         FUNCTIONAL DESCRIPTION:
                                                  This routine searches the rights database for all holders of the specified identifier, and returns their identifier and
                                                  attributes.
                                        CALLING SEQUENCE:
SYS$FIND_HOLDER (ID, HOLDER, ATTRIB, CONTXT)
                                        INPUT PARAMETERS:
                                                                 identifier longword whose holder records
                                                  ID:
                                                               are to be found (optional) address of a longword containing the record stream context. initially should be zero, value output on first call, value input on
                                                  CONTXT:
                                                                subsequent calls.
                                         IMPLICIT INPUTS:
                                                  NONE
    854
855
856
857
858
859
                                         OUTPUT PARAMETERS:
                                                  HOLDER:
                                                                (optional) address to return the holder id quadword
                                                  ATTRIB: (optional) address to return the attributes longword
                                         IMPLICIT OUTPUTS:
                                                  NONE
    860
861
                                        ROUTINE VALUE:
    862
863
864
865
866
867
868
870
871
                                                  Status of operation
                                         SIDE EFFECTS:
                                                  NONE
                                     BEGIN
                                     LOCAL
    872
873
874
875
876
877
                                                  LOC_ID
LOC_HOLDER
LOC_ATTRIB
LOC_CONTXT
STATUS
                                                                              LONG.
                                                                                                                CODY OF
                                                                                                        local copy of HOLDER
                                                                              LONG.
                                                                                                       local copy of HULDER
local copy of ATTRIB
local copy of CONTXT
general status value
flag indicating continuation
call to EXESCLOSE_RDB required flag
RAB for file I/O
                                                                              LONG.
                                                                              LONG.
                                                                              LONG.
                                                   CONTINUE
                                                                              LONG.
    878
879
880
881
882
883
                                                  CLOSE
                                                                               LONG,
                                                                              $RAB DECL RAB for Tile
$BBLOCK [KGB$K IDENT_RECORD];
                                                  REC_BUFFER
                                                                                                       record buffer to read records
    884
885
                         0880
                                      LABEL
                                                  RDB_OPEN:
                                                                                                    ! rights database is open in this block
```

STATUS = \$GET (RAB = RAB);

IF .STATUS EQLU RMS\$ RNF THEN STATUS = SS\$ NOSUCHID;

940

RDB VO4

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$FIND_HOLDER - search RDB for ident holde 14-Sep-1984 12:40:52
                                                                                                                             VAX-11 Bliss-32 V4.0-742 ELOADSS.SRCJRDBSHR.B32;1
RDBSHR
V04-000
    943
9445
9447
9449
955
955
955
955
959
                      THEN
                                                  BEGIN
EXESSFINISH RDB (.LOC_CONTXT);
LEAVE RDB_OPEN;
                                                   END:
                                             END:
                                          Switch to sequential mode and read the next holder record, and
                                          return the data items.
                                       RAB[RAB$B_RAC] = RAB$C_SEQ;
STATUS = $GET (RAB = RAB);
IF .STATUS EQLU RMS$_EGF OR .STATUS EQLU RMS$_OK_LIM
                                        STATUS = SS$_NOSUCHID;
IF NOT .STATUS
    960
961
                                       THEN
                                             BEGIN
    962
963
964
965
                                             EXESSFINISH_RDB (.LOC_CONTXT);
                                             LEAVE ROB_OPEN;
    966
967
                                       IF .LOC_HOLDER NEQU O
                                       THEN
   968
969
970
                                       CH$MOVE (KGB$S HOLDER, REC_BUFFER[KGB$Q_HOLDER], .LOC_HOLDER);
IF .LOC_ATTRIB NEQU 0
                                       THEN
                                             .LOC_ATTRIB = .REC_BUFFER[KGB$L_ATTRIBUTES];
                                       STATUS = SS$_NORMAL;
                                       END:
                                    Close the rights database if there is no image
                                 IF .CLOSE THEN EXESCLOSE_RDB();
RETURN .STATUS
                                                                                          ! End of routine SYS$FIND_HOLDER
```

			OFFC	00000	.ENTRY	SYS\$FIND_HOLDER, Save R2,R3,R4,R5,R6,R7,R8,-	0826
04	SE AE	80	AE 9E AC DO OC 18	00008 00006	MOVAB MOVL	-128(SP) SP ID, LOC_ID	0886 0887 0889
8FFFFFFF	8F	04	AE D1	00000	MOVL BGEQ CMPL BLEQU	LOC_ID, #-1879048193	0889
3 F F F F F F F	8F	04	AE DS	00019 18: 00021 00023	BRB CMPL BGTRU TSTL BNEQ	LOC_ID, #1073741823 LOC_ID	0891
	50	2224	86 30	00028 28:	HOVZWL	#8740, RO	

RDB VO4

RDBSHR V04-000	RDBS	SHR - Right SFIND_HOL	ts databa DER - s	se ear	loadable s ch RDB for	stem	t h	rvic i	6-Sep-	1984 01:48 1984 12:40	:50 VAX-11 Bliss-32 V4.0-742 :52 ELOADSS.SRCJRDBSHR.B32;1	Page 29
				5A	08	AC 6E 5A	0400	00020 0003 0003 0003	3\$:	RET MOVL CLRL TSTL REQL	HOLDER LOC_HOLDER (SP) LOC_HOLDER 48	0893 0894
		6A		08		6E	00	00038 00038 00038		INCL	(SP) #0, #8, (LOC_HOLDER)	e e
				59	00	A650602A550501A5505000	13 00 04 05 13	00036 00046 00046 00046 00046	1 48:	BEQL INCL PROBEW BEQL MOVL CLRL TSTL BEQL INCL PROBEW	ATTRIB, LOC_ATTRIB R11 LOC_ATTRIB	0898 0899
		69		04		5B 00	00	0004		PROBEW	#0, #4, (LOC_ATTRIB)	•
				57	10	AC 50 57 00	D0 D4 D5 13	00050	58:	BEQL MOVL CLRL TSTL BEQL INCL PROBEW	CONTXT, LOC_CONTXT RO LOC_CONTXT 7	0903 0904
		67		04		50	00	00058 00056 00056		INCL	RO WO, W4, (LOC_CONTXT) 7\$	•
				50		00	00	0006 0006	68:	BNEQ MOVL RET	#12, RO	0906
				00		50 50 67 02 50 50 50 50 68 68	04 E9 D4 D5	00068 00068 00068	3 75:	BLBC CLRL TSTL BEQL INCL	RO, 9\$ RO (LOC_CONTXT)	0912
				58		50 50	00	00073	85:	MOVL	RO CONTINUE	
00// 9	8F	00		6E		58	04 2C	00076 00078 00077	95:	BRB CLRL MOVCS	CONTINUE	0023
0044	Or .	Q U	3 C 4 O 5 A 5 C 6 O 6 C 7 O	AE AE AE AE AE	3C 4401 00124000 0C 04 08 42	85 86 30 86 86 86 86 86 86 86 86 86 86 86 86 86	B0 90 90 9E 9E 9F	00081 00083 00091 00091 00095 00095 00008	1	MOVC5 MOVU MOVB MOVU MOVAB MOVAB MOVAB MOVB PUSHAB PUSHAB	#17409, \$RMS PTR #17409, \$RMS PTR #1196032, \$RMS PTR+4 #1, \$RMS PTR+30 #48, \$RMS PTR+32 REC_BUFFER, \$RMS PTR+36 LOC_ID, \$RMS PTR+48 #4, \$RMS_PTR+52 CLOSE RAB+2 -(SP)	0923
		0	0000000G	9F 56 73 1E			D4 DB DB DB EB	000A0 000A0 000B0 000B0 000B0		CLRL PUSHL CALLS MOVL BLBC BLBS PUSHAB	LOC_CONTXT #4. @#EXE\$OPEN_RDB RO. STATUS STATUS. 20\$ CONTINUE, 12\$ RAB #1, SYS\$GET RO. STATUS STATUS. #98994	0924 0933 0936
			00000000G	00 56 8F	30	05068E1065F6E	58 9F 9D 01	000C1 000CE 000CE		PUSHAB CALLS MOVL CMPL BNEQ	RAB #1, SYS\$GET RO, STATUS STATUS, #98994 11\$	0936
				56 2A	21EC 5A	8f Só AE	3C E9	000D 000D	118:	MOVZWL BLBC CLRB	#8684 STATUS STATUS 158 RAB+30	0938 0950

RDBSHR V04-000	RDBSHR - Rights (SYSSFIND_HOLDER	- search	RDB for	dent	holde 1	4-Sep-	984 12:40	1:50 VAX-11 Bliss-32 V4.0-742 1:52 [LOADSS.SRC]RDBSHR.B32;1	Page 3
	00000 00018 00018		30	AE 91 50 D0 56 D0 12	000E2 000E5 000EC 1 000EF 5 000F6		PUSHAB CALLS MOVL CMPL BEQL	RAB #1. SYSSGET RO. STATUS STATUS, #98938 138	095
		56 08 00006 9F	21EC	05 1; 8F 3; 56 E; 57 D; 01 F;	000FF 00101 00106 00109 00108	138: 148: 158:	BEQL CMPL BNEQ MOVZWL BLBS PUSHL CALLS	STATUS, #98385 14\$ #8684. STATUS STATUS, 16\$ LOC_CONTXT #1. @#EXE\$\$FINISH_RDB	095 095 095
	6A	14 AE 04 69	10	12 15 6E 08 25 8E 01 01 01	00112 00114 00117 00110 0011F	16\$: 17\$:	BLBS PUSHL CALLS BRB BLBC MOVC3 BLBC MOVL	198 (SP), 178 #8, REC BUFFER+8, (LOC_HOLDER) R11, 188 REC BUFFER+4, (LOC_ATTRIB)	095 096 096 096 096 097
	00000	56 07 00006 9F 50	08	01 DE CO DE CODE DE CO DE CODE D	B 0012A	18\$: 19\$: 20\$:	BLBC MOVL MOVL BLBC CALLS MOVL RET	N1, STATUS CLOSE, 20\$ NO, AMEXESCLOSE_RDB STATUS, RO	096 097 097

RDB VO4

```
RDB
VO4
```

(6)

Page

```
RUBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$MOD_HOLDER - modify holder record 14-Sep-1984 12:40:52
RDBSHR
                                                                                                                                                  VAX-11 Bliss-32 V4.0-742 
LLOADSS.SRCJRDBSHR.B32;1
V04-000
                                       **SBTTL ' SYS$MOD_HOLDER - modify holder record'
GLOBAL ROUTINE SYS$MOD_HOLDER (ID, HOLDER, SET_ATTRIB, CLR_ATTRIB) =
   983
984
985
986
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988
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991
993
995
996
997
998
999
                          0978
0979
0980
0981
0981
0983
0984
0988
0986
0998
0998
0999
09995
09996
1001
1005
1006
1008
                                           FUNCTIONAL DESCRIPTION:
                                                     This routine modifies the specified holder record.
                                           CALLING SEQUENCE:
                                                     SYS$MOD_HOLDER (ID, HOLDER, SET_ATTRIB, CLR_ATTRIB)
                                           INPUT PARAMETERS:
                                                     ID:
                                                                         identifier longword
                                                                         address of the holder identifier quadword (optional) longword containing the attributes to set
                                                     HOLDER:
                                                     SET_ATTRIB:
                                                                         into the holder record
                                                     CLR_ATTRIB:
                                                                         (optional) longword containing the attributes to clear
   1001
                                                                         in the holder record
   1002
   1003
                                           IMPLICIT INPUTS:
   1004
                                                     NONE
   1005
   1006
                                           OUTPUT PARAMETERS:
   1007
                                                     NONE
   1008
   1009
                                           IMPLICIT OUTPUTS:
   1010
                                                     NONE
   1011
  1012
                                           ROUTINE VALUE:
                                                     Status of operation
   1014
   1015
                          1010
                                          SIDE EFFECTS:
  1016
                          1011
1012
1013
1014
1015
1016
1017
1018
1019
                                                     Holder record modified
   1017
   1018
   1019
   1020
1021
1022
1023
1024
1025
1026
1027
1028
1031
1033
1035
1036
1037
1038
                                       BEGIN
                                       LOCAL
                                                    LOC_ID
LOC_HOLDER
HOLDER_ID
LOC_SET_ATTRIB
LOC_CLR_ATTRIB
ID_ATTRIB
STATUS
                                                                                  LONG.
                                                                                                             local copy of ID
                                                                                  REF VECTOR,
                                                                                                                                    HOLDER
                                                                                                              local copy of
                          1020
1021
1022
1023
1024
1025
1026
1027
1028
1030
1031
1033
1034
                                                                                  VECTOR [2].
                                                                                                                                    holder id quadword
                                                                                                              local copy of
                                                                                                             local copy of SET_ATTRIB
local copy of CLR_ATTRIB
attributes of identifier
                                                                                  LONG.
                                                                                   LONG.
                                                                                   LONG.
                                                                                 LONG, general status value
LONG, call to EXESCLOSE RDB required flag
$RAB_DECL, RAB for file operations
$BBLOCK [KGB$K_IDENT_RECORD];
                                                     CLOSE
                                                     REC_BUFFER
                                                                                                             general purpose record buffer
                                        LABEL
                                                     RDB_OPEN:
                                                                                                          ! rights database is open in this block
                                          Validate parameters
```

```
Rights database loadable system servic 16-Sep-1984 01:48:50 14-Sep-1984 12:40:52
RDBSHR
                                                                                                                                 VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1
V04-000
                        SYS$MOD_HOLDER - modify holder record
                       1035
1036
1037
1038
1040
1042
1043
1044
1046
1047
1051
1055
1055
1057
  1040
1041
1043
1043
1044
1046
1047
1053
1053
1055
1057
                                   LOC ID = .ID:
IF T.LOC ID AND UICSM_ID_FORM_FLAG) NEQU O
                                         (IF (.LOC_ID GTRU UIC$K_LAST_ID) THEN RETURN SS$_IVIDENT)
                                   ELSE
                                         (IF (.LOC_ID GTRU UIC$K_MAX_UIC) OR (.LOC_ID EQL 0) THEN RETURN SS$_IVIDENT);
                                  LOC_HOLDER = .HOLDER;
IF NOT PROBER (%REF(0), %REF(8), .LOC_HOLDER) THEN RETURN SS$_ACCVIO;
HOLDER_ID[0] = .LOC_HOLDER[0];
HOLDER_ID[1] = .LOC_HOLDER[1];
IF .HOLDER_ID[0] GTRU UIC$K_MAX_UIC OR .HOLDER_ID[1] NEQU O
THEN
                                        RETURN SS$_IVIDENT;
                                   LOC_SET_ATTRIB = .SET_ATTRIB;
   1058
                                   IF T.LOT_SET_ATTRIB AND NOT KGB$M_VALID_ATTRIB) NEQU O THEN RETURN SS$_BADPARAM;
   1059
  1060
1061
1062
1063
1064
1065
                                  LOC_CLR_ATTRIB = .CLR_ATTRIB;
IF T.LOC_CLR_ATTRIB AND NOT KGB$M_VALID_ATTRIB) NEQU 0 THEN RETURN SS$_BADPARAM;
                       1058
1059
                                   ! Get the rights database open for write.
                      1060
1061
1062
1063
  1066
1067
                                   $RAB_INIT (RAB = RAB,
                                                   RAC =
                                                           KEY,
  1068
1069
                                                   KRF = 0
                                                   KBF = LOC_ID.
                       1064
   1070
                       1065
                                                   KSZ
                                                        =
                       1066
1067
                                                  ROP = (LIM, WAT, RLK, ULK),
UBF = REC_BUFFER,
  1071
  1072
                                                  USZ = KGB$K_IDENT_RECORD
  1073
                       1068
                       1069
1070
  1074
  1075
                                   STATUS = EXESOPEN_RDB (0, 1, RAB[RAB$W_ISI], CLOSE);
  1076
                       1071
                                   IF NOT .STATUS THEN RETURN .STATUS;
                       1072
1073
1074
1075
1076
1077
  1077
                                  RDB_OPEN:
BEGIN
  1078
  1079
  1080
  1081
                                           Read and lock the ident record and save away its attributes.
  1082
                       1078
  1083
  1084
                                         STATUS = $GET (RAB = RAB);
                                         IF .STATUS EQLU RMS$ POF THEN STATUS = SS$ NOSUCHID; IF NOT .STATUS
  1085
                       1080
  1086
1087
                       1081
1082
1083
1084
1085
1086
1087
1088
1089
1090
                                         THEN
   1088
   1089
                                              SFREE (RAB = RAD);
  1090
1091
1092
1093
                                              LEAVE RDB_OPEN;
                                         ID_ATTRIB = .REC_BUFFER[KGB$L_ATTRIBUTES];
  1094
                                           Read the holder records looking for the specified one.
  1095
```

1096

RDI VO

Page 32 (6)

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$MOD_HOLDER - modify holder record 14-Sep-1984 12:40:52
                                                                                                                       VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1
RDBSHR
V04-000
                                      RAB[RAB$V_ULK] = 0;
RAB[RAB$B_RAC] = RAB$C_SEQ;
                     1092
  1097
  1098
1099
                      1094
                                      WHILE 1 DO
                      1095
1096
1097
1098
                                           BEGIN
STATUS = $GET (RAB = RAB);
  1100
  1101
  1102
                                           IF .STATUS EQLU RMS$_EOF OR .STATUS EQLU RMS$_OK_LIM
                      1099
  1104
                                                SFREE (RAB = RAB);
STATUS = SS$ NOSUCHID;
  1105
                      1100
  1106
                      1101
                      1102
                                                 LEAVE RDB_OPEN;
  1108
                     1104
1105
1106
1107
  1109
  1110
                                           IF CHSEQL (KGBSS_HOLDER, HOLDER_ID[0], KGBSS_HOLDER, REC_BUFFER[KGBSQ_HOLDER])
  1111
                                                EXITLOOP:
                      1108
                                           END:
                     1109
  1114
                      1110
  1115
                                        Now set and clear attributes as specified, but limited by the ident
                      1111
  1116
                                        record attributes.
                     1112
  1117
  1118
                     1114
  1119
                                      IF .LOC_CLR_ATTRIB NEQU O
  1120
1121
1122
1123
1124
1125
1126
1127
1128
1129
                     1116
                                           REC_BUFFER[KGB$L_ATTRIBUTES] =
.REC_BUFFER[KGB$[_ATTRIBUTES] AND NOT .LOC_CLR_ATTRIB;
                                          LOC_SET_ATTRIB NEGU O
                      1118
                     1119
                     1120
1121
1122
1123
1124
1125
1126
1127
1128
1129
1131
1132
1133
1134
1135
1136
                                           REC_BUFFER[KGB$L_ATTRIBUTES] =
                                           (.REC_BUFFER[KGB$L_ATTRIBUTES] OR .LOC_SET_ATTRIB) AND .ID_ATTRIB;
                                      STATUS = SUPDATE (RAB = RAB):
                                      $FREE (RAB = RAB);
                                      END:
  1131
  1132
                                   Close the rights database if there is no image
  1134
  1135
                                IF .CLOSE THEN EXESCLOSE_RDB();
  1136
1137
                                IF .STATUS
                                THEN
  1138
                                      RETURN SS$_NORMAL
  1139
                                ELSE
                                      RETURN . STATUS;
  1140
  1141
  1142
                                END:
                                                                                      ! End of routine SYS$MOD_HOLDER
```

03FC 00000 SYS\$MOD_HOLDER, Save R2,R3,R4,R5,R6,R7,R8,-9E 9E 9E DD 00002 00009 00010 00014 00 00 AE AC SYSSFREE, R9 00000000G MOVAB SYSSGET, R8 -128(SP), SP MOVAB MOVAB 1037 PUSHL

RDE

RDBSHR V04-000		RDBSHR - SYS\$MOD	Rights HOLDER	databa - mo	se l dify	oadable :	system record	servic	D 10 16-Sep- 14-Sep-	1984 01:48 1984 12:40	:50 VAX-11 Bliss-32 V4.0-742 :52 [LOADSS.SRC]RDBSHR.B32;1	Page 34 (6)
			8FFF	FFFF	8F		0B 6E 0F	18 0001 01 0001 18 0002 11 0002	7	BGEQ CMPL BLEQU	1\$ LOC_ID, #-1879048193	1038
			3FFF	FFFF	8F		33 6E 2A 6E	11 0002 01 0002 1A 0002 05 0002	18:	BRB CMPL BGTRU TSTL	48 LOC_ID, #1073741823	1042
			60		50 08 50	08	0BE	18 0001 18 0002 11 0002 11 0002 12 0003 12 0003 12 0003 12 0003 12 0003	2\$:	BEQL MOVL PROBER BNEQ MOVL	LOC_ID 48 HOLDER, LOC_HOLDER #0, #8, (LOC_HOLDER) 38 #12, RO	1044 1045
			3FFF	7C FC FFFF	AE AD 8F	04 7C FC	60 A0 AE 05 AD	DO 0003 DO 0004 D1 0004 1A 0005 D5 0005	38:	RET MOVL MOVL CMPL BGTRU TSTL BEQL	(LOC_HOLDER), HOLDER_ID 4(LOC_HOLDER), HOLDER_ID+4 HOLDER_ID, #1073741823 45 HOLDER_ID+4 5\$	1046 1048 1048
					50	2224		3C 0005	7 45:	MOYZWL	#8740, R0	1050
			FFFF	FFFE	57 8F	00	57 00	DO 00051 D3 00061))5: 	MOVL BITL BNEQ	SET_ATTRIB, LOC_SET_ATTRIB LOC_SET_ATTRIB, #-2 6\$	1052 1053
			FFFF	FFFE	56 8f 50	10	0D AC 56 04 14	00 0006 03 0006 13 0007	A 5 7 6\$:	MOVL BITL BEQL MOVL	CLR_ATTRIB, LOC_CLR_ATTRIB LOC_CLR_ATTRIB, W-2 78 W20, RO	1055 1056
0044	8F		00		6E			04 0007/ 2C 0007	78:	RET MOVC5	#0, (SP), #0, #68, \$RMS_PTR	1069
				3C A	AE	38 4401 000E4000 08 04 3E	00 88 80 30 80 80 80 80 80 80 80 80 80 80 80 80 80	00082 000084 000088 9000992 000996 9E00098 9E00098		MOVW MOVB MOVW MOVAB MOVAB MOVAB PUSHAB PUSHAB PUSHL	#17409, \$RMS_PTR #933888, \$RMS_PTR+4 #1, \$RMS_PTR+30 #48, \$RMS_PTR+32 REC_BUFFER, \$RMS_PTR+36 LOC_ID, \$RMS_PTR+48 #4, \$RMS_PTR+52 CLOSE RAB+2 #1	1070
			0000	00006	9F 54 03			FB 000B D0 000B EB 000B		PUSHL CLRL CALLS MOVL BLBS	-(SP) #4, amexesopen_RDB R0, STATUS STATUS, 8\$ 18\$ RAB	1071
			0001	82B2	68 54 8F	38	0093 AE 01 50 54	9F 000C FB 000C D0 000C D1 000C	8\$:	MOVL	RO STATUS	1079
				3E	54 61 55 AE	21EC 0C	50 54 05 85 85 86 86 86	9F 000A 9F 000A DD 000A FB 000B DO 000B E8 000B 9F 000C FB 000C DD 000C DD 000D DD 000D BA 000D 94 000E 9F 000E	98:	MOVZUL BLBC MOVL BICB2 CLRB PUSHAB	98 #8684, STATUS STATUS, 158 REC_BUFFER+4, ID_ATTRIB #4, RAB+6 RAB+30 RAB	1081 1087 1092 1093
						56 38	ĀĒ	9F 000E	5 10\$:	PUSHAB	RAB	1096

v04-000			ghts databa LDER - mo									Page 35 (6)
			0001827A	68 54 8F		054940E1	FB 00 01	000E9 000EC 000EF		CALLS MOVL CMPL	#1, SYS\$GET RO, STATUS STATUS, #98938	1097
			00018051	8F		54	D1 12	000F6 000F8 000FF		BEQL	118 STATUS, #98385 128	
				40	38	AĘ	9F	00101	115:	BNEQ	RAB	1100
				69 54	21EC	8F	FB 3C	00104		MOVZWL	#1. SYSSFREE #8684. STATUS	1101
	10	AE	70	AE		08	29	0010C 0010E	12\$:	BRB CMPC3	16\$ #8, HOLDER_ID, REC_BUFFER+8 10\$	1101 1102 1105
						56	05	00114		BNEQ TSTL BEQL	LOC_CLR_ATTRIB	1114
			OC	AE		08 05 05 05 05 05 05 05 05 05 05 05 05 05	CA D5	00118 0011A 0011E	13\$:	BICL2 TSTL	LOC_CLR_ATTRIB, REC_BUFFER+4 LOC_SET_ATTRIB	1117
		50	ОС	AE 51		57 57	C9	00120		BEQL BISL3	LOC SET ATTRIB, REC_BUFFER+4, RO ID_ATTRIB, R1	1121
	00	AE		50	70	51	D2 CB 9F	00127 0012A	1/0.	MCOML BICL3	R1, R0, REC_BUFFER+4	
			0000000G	00	38	AE 010 50 AE 01 AE 054	FB	0012F 00132	14\$:	PUSHAB	#1, SYSSUPDATE	1123
					38	AE	FB DO 9F	00139 0013C	158:	MOVL PUSHAB	RAR	1124
				69	04	AE	FB E9 FB	0013F 00142	165:	CALLS BLBC CALLS	CLOSE, 178	: 1130
			00000000G	9F 04 50		00 54 01	FB E9 D0	00146 00140 00150	178:	MOVL	#1. SYS\$FREE CLOSE, 17\$ #0. amexe\$close_RDB STATUS, 18\$ #1. R0	1131 1135
				50		54	04	00153 00154 00157	185:	RET MOVL RET	STATUS, RO	1137

; Routine Size: 344 bytes. Routine Base: \$CODE\$ + 07DE

; 1143 1138 1

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$MOD_IDENT - Modify identifier record 14-Sep-1984 12:40:52
RDBSHR
                                                                                                                                                                        VAX-11 Bliss-32 V4.0-742 ELOADSS.SRCJRDBSHR.B32;1
V04-000
                                              **SBTTL ' SYS$MOD_IDENT - Modify identifier record'
GLOBAL ROUTINE SYS$MOD_IDENT (ID, SET_ATTRIB, CLR_ATTRIB, NEW_NAME, NEW_ID) =
   1146
                               1140
                               1141
                               1143
1144
1144
1145
1146
1147
  1148
1149
1150
1151
1152
1153
1154
1156
1157
1158
1159
                                              144
                                                 FUNCTIONAL DESCRIPTION:
                                                             This routine modifies the attributes of the specified identifier.
                               1148
1149
1150
                                                  CALLING SEQUENCE:
                                                             SYS$MOD_IDENT (ID, SET_ATTRIB, CLR_ATTRIB, NEW_NAME, NEW_ID )
                              1151
1152
1153
1154
1155
1156
1157
1158
1159
                                                  INPUT PARAMETERS:
                                                             ID: identifier longword
SET_ATTRIB: (optional) longword containing the attributes
to set into the identifier record
    1160
   1161
                                                             CLR_ATTRIB: (optional) longword containing the attributes to clear in the identifier record
   1163
1163
1164
1166
1166
1167
1168
1170
1173
1176
1177
1178
1178
1183
1186
1186
                                                             NEW_NAME :
                                                                                    address of a character string descriptor for
                                                                                    the new name
                               1160
                                                                                    new identifier value
                                                             NEW_ID:
                               1161
                              1162
1163
1164
1165
                                                  IMPLICIT INPUTS:
                                                             NONE
                                                  OUTPUT PARAMETERS:
                              1166
1167
                                                             NONE
                              1168
1169
1170
1171
1172
1173
1174
1175
1176
1177
                                                  IMPLICIT OUTPUTS:
                                                             NONE
                                                 ROUTINE VALUE:
                                                             Status of operation
                                                 SIDE EFFECTS:
                                                             Identifier record modified
                                              BEGIN
                              1180
1181
1182
1183
1184
1185
1186
1187
1188
1190
1191
1192
1193
1194
1195
                                              LITERAL
                                                                                                      KGB$K_HOLD_RECORD,
KGB$K_IDENT_RECORD,
KGB$K_MAINT_RECORD);
                                                             BUFFER_LENGTH = MAX (
   1188
1189
1190
1191
1192
1193
1194
1195
1196
                                              LOCAL
                                                            LOC_ID
LOC_SET_ATTRIB
LOC_CLR_ATTRIB
LOC_NEW_NAME
LOC_NEW_ID
NEW_NAMEN
NEW_NAMEN
NEW_NAMADR
STATUS
                                                                                                                             local copy of ID local copy of SET_ATTRIB local copy of CLR_ATTRIB local copy of NEW_NAME local copy of NEW_ID Length of new name
                                                                                               $BBLOCK[4].
                                                                                               LONG.
                                                                                               LONG.
                                                                                               LONG,
$BBLOCK[4],
                                                                                               LONG.
   1198
1199
1200
1201
                                                                                               LONG.
                                                                                                                              address of new name
                                                                                                                              general status value call to EXESCLOSE_RDB required flag RAB for file I/O
                                                                                               LONG.
                                                                                                LONG,
                                                             CLOSE
                                                                                               SRAB_DECL.
                                                             RAB
```

RDE VO4

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RDE
VO4
```

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$MOD_IDENT - Modify identifier record 14-Sep-1984 12:40:52
RDBSHR
V04-000
                                                                                                       VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.832;1
                                                        1 $BBLOCK [BUFFER_LENGTH]; ! record buffer for records
                   1196
1197
1198
1199
                                     REC_BUFFER
                            LABEL
                                     RDB_OPEN:
                                                                           ! rights database is open in this block
                              Validate parameters
                            LOC_ID = .ID:
IF .LOC_ID[UICSV_FORMAT] EQL UICSK_ID_FORMAT
                                 (IF (.LOC_ID GTRU UIC$K_LAST_ID) THEN RETURN SS$_IVIDENT)
                                 (IF (.LOC_ID GTRU UIC$K_MAX_UIC) OR (.LOC_ID EQL 0) THEN RETURN SS$_IVIDENT);
                            LOC_SET_ATTRIB = .SET ATTRIB:
                            IF T.LOT SET ATTRIB AND NOT KGBSM VALID ATTRIB) NEQU O THEN RETURN SSS BADPARAM:
                            LOC_CLR_ATTRIB = .CLR ATTRIB:
                            IF T.LOT_CLR_ATTRIB AND NOT KGBSM_VALID_ATTRIB) NEQU O THEN RETURN SS$ BADPARAM;
                            LOC_NEW_NAME = .NEW NAME :
                            IF LOC NEW NAME NEW O
                            THEN
                                 STATUS = EXESVAL_IDNAME ( .LOC_NEW_NAME ; NEW_NAMLEN, NEW_NAMADR ) ;
                                 IF NOT .STATUS THEN RETURN .STATUS ;
                                 END :
                            LOC_MEW_ID = .NEW_ID;
                            IF TLOC NEW ID NEW O
                            THEN
                                 IF .LOC_NEW_IDEUICSV_FORMAT] EQL UICSK_ID_FORMAT
                                     (IF (.LOC_NEW_ID GTRU UIC$K_LAST_ID) THEN RETURN SS$_IVIDENT)
                                     (IF (.LOC_NEW_ID GTRU UIC$K_MAX_UIC) THEN RETURN SS$_IVIDENT);
                                  Do not allow a format switch
                                 IF .LOC_IDEUICSV_FORMAT] NEQ .LOC_NEW_IDEUICSV_FORMAT]
                                 THEN RETURN SS$_IVIDENT:
                                 END :
                              Open the rights database for writing.
                            SRAB_INIT (RAB = RAB,
                                         RAC = KEY.
                                         KRF = 0.
                                         KSZ = 4
                                         KBF = LOC ID,
ROP = (LIM, WAT, RLK, ULK),
USZ = BUFFER LENGTH,
UBF = REC_BUFFER
```

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$MOD_IDENT - Modify identifier record 14-Sep-1984 12:40:52
RDBSHR
V04-000
                                                                                                                       VAX-11 Bliss-32 V4.0-742 CLOADSS.SRCJRDBSHR.B32;1
                                STATUS = EXESOPEN RDB (0, 1, RAB[RAB$W_ISI], CLOSE);
IF NOT .STATUS THEN RETURN .STATUS;
  RDB_OPEN:
BEGIN
                                        Modify the identifier name
                                         LOC_NEW_NAME NEQ 0
                                           BEGIN
STATUS = SYS$MOD IDENT NAME ( RAB, LOC_ID, .NEW_NAMLEN, .NEW_NAMADR );
IF NOT .STATUS THEN LEXVE ROB_OPEN;
                                        Modify the identifier attributes
                                      IF ( .LOC_CLR_ATTRIB NEQ 0 ) OR ( .LOC_SET_ATTRIB NEQ 0 )
                                      THEN
                                           STATUS = SYS$MOD_IDENT_ATTRIB ( RAB, .LOC_ID, .LOC_CLR_ATTRIB ) ;
                                           IF NOT .STATUS THEN LEAVE ROB_OPEN ;
                                           END :
                                        Modify the identifier value
                                      IF .LOC_NEW_ID NEQ 0 THEN
                                           STATUS = SYS$MOD IDENT_ID ( RAB, .LOC_ID, .LOC_NEW_ID ) ;
IF NOT .STATUS THEN LEAVE RDB_OPEN ;
                                           END :
                                                                 ! End of RDB_OPEN
                                     END:
                                   Close the rights database if there is no image
                                IF .CLOSE THEN EXESCLOSE_RDB();
IF .STATUS
                                THEN
                                      RETURN SS$_NORMAL
                                ELSE
                                      RETURN .STATUS;
                                END:
                                                                                      ! End of routine SYS$MOD_IDENT
```

RDE VO4

04-000		SYSSMO	_IDI	ENT - Mo	dify	loadable sy identifier		c 00000	-Sep-	1984 01:48 1984 12:40 .ENTRY		ige 39 (7)
				oc	SE AE	FF68 04 00		PE 00002		MOVAB	SYS\$MOD IDENT, Save R2,R3,R4,R5,R6,R7,R8,- R9,R10,R11 -152(SP), SP ID, LOC_ID LOC_ID, R7 #6, #2, LOC_ID+3, #2	
	02	OF	AE		AE 57 02	ŎĊ	AE C	00002 000007 0000000 000000 000010 1200016		MOVL	LOC_ID, R7	1205 1208 1206
				8fffffff	8F		AE 0087 0777	00016 00018 0001F		BNEQ CMPL BLEQU	1\$ R7, #-1879048193	1208
				366666	8F		70 1 57 1	1 00021 01 00023 1A 0002A	1\$:	BRB CMPL BGTRU TSTL	ID. LOC_ID LOC_ID. R7 #6, #2, LOC_ID+3, #2 18 R7, #-1879048193 28 88 R7, #1073741823 88 R7	1210
				FFFFFFE	SA 8F	08	70 1	05 0002C 00 00030 03 00034 02 0003B	2\$:	MOVL	SET_ATTRIB, LOC_SET_ATTRIB LOC_SET_ATTRIB, #-2	1212
				FFFFFFE	59 8F	00	AC C	0003B 00003D 030041 1300048		BITL BNEQ MOVL BITL	CLR_ATTRIB, LOC_CLR_ATTRIB LOC_CLR_ATTRIB, #-2	1215
					50			00 0004A	38:	BEQL	20. RO	
					51	10	AC 0	00004E 00052 00054 00056	48:	RET MOVL CLRL TSTL	NEW_NAME, LOC_NEW_NAME (SP) LOC_NEW_NAME 58	1218
					56	000000006		6 00058 6 0005A 0 00060 0 00063		BEQL INCL JSB MOVL	(SP) a/EXESVAL IDNAME RO. STATUS	1222
				08	56 AE 7A 58	14	52 0 56 E AC 0 58 0	00 00067 9 0006B 00 0006E 04 00072	58:	JSB MOVL MOVL MOVL BLBC MOVL CLRL TSTL	R1, 8(SP) R2, 4(SP) STATUS, 10\$ NEW_ID, LOC_NEW_ID R11 LOC_NEW_ID 9\$	1223 1226 1227
	0.2				0.2		2E 1	3 00076 6 00078		TSTL BEQL INCL CMPZV	R11	4270
	02		58	00000000	02		09 1	D 000?A 2 000?F		BNE Q CMPL	#30, #2, LOC_NEW_ID, #2 6\$	1230
				8FFFFFFF 3FFFFFFF	8F		07 1	1 00088 1 0008A	68:	BRB CMPL	LOC_NEW_ID, #-1879048193 78 LOC_NEW_ID, #1073741823	1232
	50 50	OF	58 AE		05		OD 1	00074 00076 00078 00078 00078 12 00076 11 00088 11 00088 14 00091 15 00098 15 00098 16 00098	6 5 : 7 5 :	EXTZV CMPZV	8\$ #30, #2, LOC_NEW_ID, RO #6, #2, LOC_ID+3, RO	1238
					50		06 1 8F	3 0009E	88:	MONIAL	98 #8740, RO	: 1239
0044	8F		00		6E	81	00	4 000A5	98:	RET MOVCS	#0, (SP), #0, #68, \$RMS_PTR	1252
				54 58 72 74 78 EC	AE AE AE AD AD	54 4401 000E4000 40 14 00	00 AE 8F BF 01 8F AE 04	000A6 000AF 0000B5 0000B5 0000B0 0000C1 0000C6 0000CB		MOVW MOVL MOVB MOVZBW MOVAB MOVAB	#17409, \$RMS PTR #933888, \$RMS PTR+4 #1, \$RMS PTR+30 #64, \$RMS PTR+32 REC_BUFFER, \$RMS PTR+36 LOC_ID, \$RMS PTR+48 #4, \$RMS_PTR+52	

RDB VO4

v04-000	RDBSHR - Rights databa SYS\$MOD_IDENT - Mod	,		100	014		Jep-1	984 01:48 984 12:40		Page 40 (7)
			10 5A	AE Q1	9F 9F DD	000D4 000D7 000DA		PUSHAB PUSHAB PUSHL	CLOSE RAB+2	: 1253
	0000000G	9F 56 58 16	04	764056EEE	D480990000F	000DA 000DC 000DE 000E5 000E8 000EB 000EE 000F1	10\$:	CLRL CALLS MOVL BLBC BLBC PUSHL PUSHL PUSHL PUSHAB	-(SP) #4, a#EXE\$OPEN_RDB R0, STATUS STATUS, 16\$ (SP), 11\$ NEW_NAMADR NEW_NAMLEN R7	1254 1262 1265
	0000V	CF 56 20	60	AE 040 500 500 500 500 500 500 500 500 500	9F B D D D D D D D D D D D D D D D D D D	000F6 000F9 000FE 00101 00104 00106	118:	PUSHAB CALLS MOVL BLBC TSTL BNEQ	RAB #4, SYS\$MOD_IDENT_NAME RO. STATUS STATUS, 14\$ LOC_CLR_ATTRIB	1266 1272
			0480	04 54 59 8f	053 00 08 9F	00108 0010A 0010C 0010E 00112	128:	TSTL BEQL PUSHL PUSHR PUSHAB	LOC_SET_ATTRIB 13\$ LOC_CLR_ATTRIB #^M <r7_r10></r7_r10>	1273 1277 1276
	0000V	CF 56 11 0E 7E		59 8F AE 050 55B 57	FB DO E9 FD	00115 0011A 0011D 00120	13\$:	PUSHAB CALLS MOVL BLBC BLBC MOVQ PUSHAB	RAB #4. SYS\$MOD_IDENT_ATTRIB RO. STATUS STATUS, 14\$ R11, 14\$ R7(SP)	1278 1285 1288
	0000v	CF 56 07	50	AE 03 50 AE	9F FB DO	00126 00129 0012E 00131		MOVE	RAB #3, SYS\$MOD_IDENT_ID RO, STATUS	
	0000000G	07 9F 04 50	10	AE 00 56 01	E9 FB E9 00	00131 00135 0013C 0013F 00142	14 \$: 15 \$:	BLBC CALLS BLBC MOVL RET	RO, STATUS CLOSE, 15\$ #0, a#EXESCLOSE_RDB STATUS, 16\$ #1, RO	1297 1298 1302
		50		56	00	00143	168:	MOVL RET	STATUS, RO	1304

; Routine Size: 327 bytes. Routine Base: \$CODE\$ + 0936

; 1311 1305 1 000

RDB VO4

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$MOD_IDENT_ATTRIB - Modify identifier att 14-Sep-1984 12:40:52
RDBSHR
                                                                                                                                            VAX-11 Bliss-32 V4.0-742 
ELOADSS.SRCJRDBSHR.B32;1
                                                                                                                                                                                                     Page
V04-000
                         1306
1307
1308
1309
                                     **SBTTL * SYS$MOD_IDENT_ATTRIB - Modify identifier attributes*
ROUTINE SYS$MOD_IDENT_ATTRIB ( RAB_PTR, ID, SET_ATTRIB, CLR_ATTRIB) =
  310
                          FUNCTIONAL DESCRIPTION:
                                                  This routine modifies the attributes of the specified identifier.
                                         CALLING SEQUENCE:
                                                   SYSSMOD_IDENT_ATTRIB ( RAB_PTR, ID, SET_ATTRIB, CLR_ATTRIB)
                                         INPUT PARAMETERS:
                                                  RAB_PTR: address of RAB for open rights data base file identifier longword
SET_ATTRIB: (optional) longword containing the attributes to set into the identifier record (optional) longword containing the attributes to clear in the identifier record
                                                  RAB_PTR:
                                         IMPLICIT INPUTS:
                                                  NONE
                                         OUTPUT PARAMETERS:
                                                  NONE
                                         IMPLICIT OUTPUTS:
                                                  NONE
                                         ROUTINE VALUE:
                                                  Status of operation
                                         SIDE EFFECTS:
                          340
341
342
343
344
346
347
348
349
350
                                                  Identifier record modified
                                      BEGIN
                                      LABEL
                                            MOD_ATTRIB :
                                      BIND
                                                                                                     : $RAB_DECL .
                                                               = .RAB_PTR
                         1351
1352
1353
1354
1355
1356
1357
1358
1359
1361
1361
                                            REC_BUFFER = .RAB[RAB$L_UBF]
                                                                                                     : $BBLOCK :
                                      LOCAL
                                            KRFSAV
                                                                  BYTE
                                            KSZSAV
                                            KBFSAV
                                                               : LONG
                                            RACSAV
                                                                  BYTE
                                            ROPSAV
                                                                  LONG
                                            USZSAV
                                                                  WORD
                                            IDENT RFA
                                                                  $BBLOCK [RAB$S_RfA], ! RFA of ident record
                                                               : LONG :
```

RDB VO4

: 1

```
RDBSHR
                            RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$MOD_IDENT_ATTRIB - Modify identifier att 14-Sep-1984 12:40:52
                                                                                                                                                             VAX-11 Bliss-32 V4.0-742 ELOADSS.SRCJRDBSHR.B32;1
                                                                                                                                                                                                                              Page
V04-000
  1370
1371
1372
1373
1374
1375
1376
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1378
1379
                             | 363
| 364
| 365
| 366
| 367
| 368
| 369
| 371
| 372
| 373
                                              Save the state of the RAB
                                          KRFSAV = .RAB[RAB$B_KRF]

KSZSAV = .RAB[RAB$B_KSZ]

KBFSAV = .RAB[RAB$L_KBF]

RACSAV = .RAB[RAB$B_RAC]

ROPSAV = .RAB[RAB$L_ROP]

USZSAV = .RAB[RAB$W_USZ]
                                              Set up the RAB for key record access using the id key (primary)
                                          RAB[RAB$B_RAC] = RAB$C_KEY;
RAB[RAB$L_KBF] = ID;
RAB[RAB$B_KSZ] = 4;
RAB[RAB$B_KRF] = 0;
RAB[RAB$L_ROP] = RAB$M_LIM 0
                                                                        RABSM_LIM OR
RABSM_WAT OR
RABSM_RLK OR
RABSM_ULK;
   1387
1388
                              380
   1389
   1390
                             384
385
                                          RAB[RAB$W_USZ] = KGB$K_IDENT_RECORD ;
   1391
   1392
                            1386
1387
1388
1389
                                          MOD_ATTRIB:
BEGIN
   1393
   1394
   1395
   1396
                                                     If we are clearing attributes, we have to fix up the holder records first. Locate the identifier record.
                             1390
   1397
   1398
                            1391
                            1392
1393
  1399
                                                  IF .CLR_ATTRIB NEQU O
  1400
                                                 THEN
  1401
1402
1403
                            1394
                                                         BEGIN
                                                        STATUS = $GET (RAB = RAB);
IF .STATUS EQLU RMS$ RNF THEN STATUS = SS$ NOSUCHID;
IF NOT .STATUS THEN CEAVE MOD_ATTRIB;
                            1395
                            1396
1397
1398
1399
   1404
                                                         CHSMOVE (RABSS_RFA, RAB[RABSW_RFA], IDENT_RFA);
   1405
   1406
   1407
                            1400
                                                            Now sequentially locate all the holder records and modify them.
                            1401
1402
1403
1404
1405
   1408
   1409
   1410
                                                         RAB[RAB$B_RAC] = RAB$C_SEQ;
                                                        RABERABSV ULK] = 0;
   1411
  1412
1413
1414
1415
                                                                BEGIN
                                                               STATUS = $GET (RAB = RAB);
IF .STATUS EQLU RMS$ EQF OR .STATUS EQLU RMS$ OK_LIM THEN EXITLOOP;
IF NOT .STATUS THEN [EAVE MOD_ATTRIB;
  1416
                             409
                             1410
                                                               REC_BUFFER[KGB$L_ATTRIBUTES] =
.REC_BUFFER[KGB$L_ATTRIBUTES] AND NOT .CLR_ATTRIB;
STATUS = $UPDATE (RAB = RAB);
   1418
   1419
                                                                IF NOT .STATUS THEN LEAVE MOD_ATTRIB ;
                                                                END:
                            1416
1417
                                                         RAB[RAB$B RAC] = RAB$C_RFA;
                                                         CH$MOVE (RAB$S_RFA, IDENT_RFA, RAB[RAB$W_RFA]);
```

RDB VO4

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$MOD_IDENT_ATTRIB - Modify identifier att 14-Sep-1984 12:40:52
RDBSHR
                                                                                                                                                                            VAX-11 Bliss-32 V4.0-742 [LOADSS.SRC]RDBSHR.B32;1
                                                                                                                                                                                                                                                   Page
V04-000
   142390123456789012344444444901234567890123466678901
1443333456789012344444444445567890123466678901
                                                          Read the ident record, set and clear attributes as directed, and write
                                                          it back.
                                                      STATUS = $GET (RAB = RAB);
IF .STATUS EQLU RMS$ RNF THEN STATUS = SS$_NOSUCHID;
IF NOT .STATUS THEN CEAVE MOD_ATTRIB;
                                                      IF .CLR_ATTRIB NEQU O
                                                       THEN
                                                            REC_BUFFER[KGB$L_ATTRIBUTES] =
.REC_BUFFER[KGB$C_ATTRIBUTES] AND NOT .CLR_ATTRIB;
.SET_ATTRIB NEQU 0
                                                      REC_BUFFER[KGB$L_ATTRIBUTES] =
.REC_BUFFER[KGB$[_ATTRIBUTES] OR .SET_ATTRIB;
STATUS = SUPDATE (RAB = RAB);
                                                      END:
                                                  Clean up locks.
                                               SFREE ( RAB = RAB ) :
                                                  Restore RAB
                                              RAB[RAB$B_KRF] = .KRFSAV
RAB[RAB$B_KSZ] = .KSZSAV
RAB[RAB$L_KBF] = .KBFSAV
RAB[RAB$B_RAC] = .RACSAV
RAB[RAB$L_ROP] = .ROPSAV
RAB[RAB$W_USZ] = .USZSAV
                                                  Get back to the beginning
                                              IF .STATUS THEN STATUS = $REWIND ( RAB = RAB ) ;
                               1460
                               1461
                                              RETURN . STATUS;
                               1463
                                              END:
                                                                                                                             ! End of routine SYS$MOD_IDENT_ATTRIB
                                                                                                                                                 .EXTRN SYSSREWIND
                                                                                                           OFFC 00000 SYS$MOD_IDENT_ATTRIB:
WORD Save
C2 00002 SUBL2 32.
                                                                                                                                                               Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
#32, SP
RAB PTR, R6
36(R6), R7
53(R6), KRFSAV
52(R6), KSZSAV
                                                                                                                                                                                                                                                          1307
                                                                                                                     00002
00005
00009
00000
00012
                                                                            SE
SE
SE
AE
AE
                                                                                                       86
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1351
1366
1367
                                                                                             04
24
35
34
                                                                                                                                                MOVL
                                                                                                                                                 MOVL
                                                                                                                                                 MOVE
                                                                  14
```

MOVE

RDB VO4

DBSHR - SYS\$MOD	Rights databa	se l	oadable sy Modify ide	tem se tifier	rvic 1	N 10 6-Sep- 4-Sep-	1984 01:48 1984 12:40	:50 VAX-11 BLiss-32 V4.0-742 :52 [LOADSS.SRC]RDBSHR.B32:1	Page 44
	OC	AE 5A	30 1E	A6 96	00017		MOVL MOVAB	48(R6), KBFSAV	; 1368 ; 1369
	08	AE	16	6A 90	00020		MOVB	48(R6), KBFSAV 30(R6), R10 (R10), RACSAV	; 1369
	04	AE 6E	20	6A 90 A6 D0 A6 B0 01 90	00020 00024 00029 00020 00030 00035 00035 00045		MOVE	(R10), RACSAV 4(R6), ROPSAV 32(R6), USZSAV #1, (R10) ID, 48(R6)	1370 137
	30	6A		01 90	00020		MOVB	#1. (R10)	: 1376
	34	A6	08	AC 96	00030		MOVAB	#4. 52(R6)	1377 1378
	30 34 04 20	A6	000E4000	AC 96 04 BC 8F DC 30 BC AC DC	00039)	MOVE	#933888, 4(R6)	138
	20	A6 59	10	AC DO	00045		MOVL	#933888, 4(R6) #48, 32(R6) CLR_ATTRIB, R9	1384 1384 1394
				AC DC 5B D4 59 D5	1 00047		MOVW MOVL CLRL TSTL	R11 R9	•
				6A 13	5 0004D		BEQL INCL PUSHL CALLS	4\$ R11	
	00000000			6A 13 5B D6 56 D6 01 FE 50 D6 58 D1	00051		PUSHL	R6	1399
	00000000	00 58		01 FE	00053 0005A		MOVL	#1, SYSSGET RO, STATUS	•
	00018282	8F		58 D1	00050		MOVL CMPL BNEQ	STATUS, #98994	1396
		58 65	21EC	8F 30	00066		MOVZWL	#8684, STATUS	
18	AE 10	A6		58 E9 06 28 6A 94	0006E	18:	BLBC MOVC3	#8684, STATUS STATUS, 5\$ #6, 16(R6), IDENT_RFA	: 139 : 139
	06	A6		05 12 8F 30 558 28 06 28 06 94 07 00 07 FE 07 00 07 00 00 00 00 00 00 00 00 00 00 00 00 00	00074		CLRB BICB2	(R10) #4, 6(R6)	140
				56 DE	0007A	25:	PUSHL	R6	140
	000000006	00 58		01 FE 50 DC	00083		MOVL	#1, SYSSGET RO. STATUS	
	0001827A	8F		58 D1	00086		BEQL	STATUS, #98938	1408
	00018051	8F		58 D1	0008f		CMPL	STATUS, #98385	
	•	58 A7		18 13 58 E9	00098		BICTS BFBC BEOT	3\$ STATUS, 8\$ R9, 4(R7)	1409
	04	A7		58 E9 59 C/ 56 DD	0009B 0009F 000A1		BICL2 PUSHI	R9. 4(R7)	1409 141 141
	0000000G	00		56 DD 01 FE	000A1		CALLS	R6 #1. SYSSUPDATE RO. STATUS	
		58 CC		50 D0 58 E8 43 11			PUSHL CALLS MOVL BLBS	STATUS, 25	1414
		6A		43 11 02 90	000AE	35:	BRB	8\$ #2. (R10) #6. IDENT_RFA, 16(R6)	1417
10	A6 18	6A AE		01 FE 50 D0 58 E8 43 11 02 90 28 50 D1 50 D1 50 D1 58 E9	000B3	48.	MOVB MOVC3	#6, IDENT_RFA, 16(R6)	: 1418
	00000000G	00		01 FE	00088	40:	PUSHL	R6 #1. SYS\$GET	1425
	00018282	00 58 8F		01 FE 50 DC 58 D1	00000		MOVL CMPL BNEQ MOVZWL	#1. SYSSGET RO. STATUS STATUS, #98994	1426
			2150	05 12 8F 30	00000		BNEQ	MALAL STATUS	
		58 10	21EC	58 ES	00003	58:	BLBC	STATUS, 8\$	1427
	04	1D 04 A7		58 E9	000D6		BLBC BLBC BICL2 TSTL	R11, 65 R9, 4(R7)	1427 1429 1432 1433
			00		6 000DD	68:	TSTL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1433
	04	A7	OC	AC 05 AC C8 56 DC 01 FE 50 DC	000ES	30	BEOL BISL2	SEL_ATTRIB, 4(N/)	1436 1437
	000000006	00		06 DE	000E7	78:	PUSHL	M1. SYSSUPDATE	: 1437
		00 58		50 DC	000FQ	85:	MOVL PUSHL	RO. STATUS	1443

RDBSHR VO4-000

RDBSHR	RDBSHR - Rights databas	e loadable	system	servic 16-Sep-	-1984 01:48:	VAX-11 Bliss-32 V4.0-742	Page 45 (8)
V04-000	SYS\$MOD_IDENT_ATTRIB	- Modify	identif	ier att 14-Sep-	-1984 12:40:	ELOADSS.SRCJRDBSHR.B32;1	
	00000000G 35 34 30 04 20 00000000G	00 A6 A6 A6 A6 A6 OC	01 AE 10 AE 08 AE 04 6E 58 56 01 50	FB 000F5 90 000FC 90 00101 D0 00106 90 00108 D0 0010F B0 00114 E9 00118 DD 0011B FB 0011D D0 00124 D0 00127 9\$:	PUSHL F CALLS M MOVL	V1, SYS\$FREE (RFSAV, 53(R6)) (SZSAV, 52(R6)) (BFSAV, 48(R6)) RACSAV, (R10) ROPSAV, 4(R6) USZSAV, 32(R6) STATUS, 9\$ R6 V1, SYS\$REWIND R0, STATUS STATUS, R0	1448 1449 1450 1451 1452 1453 1458 1459

; Routine Size: 299 bytes, Routine Base: \$CODE\$ + OA7D

; 1472 1465 1

```
RDB5HR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$MOD_IDENT_ID - Modify identifier value 14-Sep-1984 12:40:52
RDBSHR
V04-000
                                                                                                                                                                                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Page
                                                           1466
1467
1468
1469
1470
1471
1472
1473
                                                                                          %SBTTL 'SYS$MOD_IDENT_ID - Modify identifier value'
ROUTINE SYS$MOD_IDENT_ID ( RAB_PTR, ID, NEW_ID ) =
     FUNCTIONAL DESCRIPTION:
                                                                                                                        This routine modifies the name of the specified
                                                            144776
144776
144776
144776
14476
14488
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144
                                                                                                 CALLING SEQUENCE:
                                                                                                                       SYS$MOD_IDENT_ID ( RAB_PTR, ID, .NEW_ID )
                                                                                                 INPUT PARAMETERS:
                                                                                                                                                                                  Address of RAB for the open rights data base file identifier longword new value for identifier
                                                                                                                       RAB PTR:
                                                                                                                        ID:
                                                                                                                       NEW_ID:
                                                                                                 IMPLICIT INPUTS:
                                                                                                                       NONE
                                                                                                 OUTPUT PARAMETERS:
                                                                                                                       NONE
                                                                                                 IMPLICIT OUTPUTS:
                                                                                                                       NONE
                                                                                                 ROUTINE VALUE:
                                                                                                                       Status of operation
                                                                                                SIDE EFFECTS:
                                                                                                                       Identifier record modified
                                                                                         BEGIN
                                                                                                 If the size of the holder ever changes then the OLD_HOLDER and NEW_HOLDER
                                                                                                 vectors will have to be adjusted.
                                                                                         $ASSUME ( KGB$S_HOLDER, EQL, 8 );
                                                                                         LABEL
                                                             1510
                                                                                                        MOD_ID ;
                                                            1512
1513
1514
1515
                                                                                        BIND
                                                                                                                                                     = .RAB_PTR
                                                                                                                                                                                                                                               : $RAB_DECL .
                                                                                                        REC_BUFF
                                                                                                                                                     = .RABTRAB$L_UBF]
                                                                                                                                                                                                                                               : $BBLOCK :
                                                            1516
1517
                                                                                        LOCAL
                                                                                                        KRFSAV
                                                                                                                                                     : BYTE
                                                            1518
1519
                                                                                                                                                     : BYTE
                                                                                                         KSZSAV
                                                                                                                                                    : LONG
: BYTE
: LONG
                                                                                                         KBFSAV
                                                             1520
                                                                                                         RACSAV
                                                                                                         ROPSAV
                                                                                                         USZSAV
                                                                                                                                                     : WORD
```

RDE

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$MOD_IDENT_ID - Modify identifier value 14-Sep-1984 12:40:52
RDBSHR
                                                                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742 [LOADSS.SRC]RDBSHR.B32;1
                                                                                                                                                                                                                                                                                                                          (9)
V04-000
                                                                   OLD_HOLDER
NEW_HOLDER
STATUS
                                                                                              : VECTOR [2.LONG].
: VECTOR [2.LONG].
   15255789012345678901234567890155255334567890155445678901554456789015544567890
                                                                                                 : LONG :
                                                         KRFSAV = .RAB[RAB$B_KRF]

KSZSAV = .RAB[RAB$B_KSZ]

KBFSAV = .RAB[RAB$L_KBF]

RACSAV = .RAB[RAB$B_RAC]

ROPSAV = .RAB[RAB$L_ROP]

USZSAV = .RAB[RAB$L_USZ]
                                                         MOD_ID:
BEGIN
                                                                        Make sure that the new value is not in use.
                                                                   RAB[RAB$B_RAC] = RAB$C_KEY;
RAB[RAB$B_KRF] = 0;
RAB[RAB$B_KSZ] = 4;
RAB[RAB$L_KBF] = NEW ID;
RAB[RAB$W_USZ] = KGB$K_IDENT_RECORD;
RAB[RAB$L_ROP] = RAB$M_NLK_OR_RAB$M_RRL;
STATUS = $FIND ( RAB = RAB );
IF .STATUS THEN STATUS = SS$_DUPLNAM;
IF .STATUS NEQ RMS$_RNF_THEN_LEAVE_MOD_ID;
    1551
    1552
1553
1554
                                                                                                                                                                               ! No lock, read regardless
    1555
    1556
    1557
1558
    1559
                                                                        Read the maintenance record to interlock the whole
    1560
                                                                        operation.
    1561
1562
1563
1564
1565
1567
1568
1569
                                                                   RAB[RAB$L_KBF] = UPLIT (0);
RAB[RAB$W_USZ] = KGB$K_MAINT_RECORD;
RAB[RAB$L_ROP] = RAB$M_WAT OR RAB$M_RLK OR RAB$M_ULK;
STATUS = $GET ( RAB = RAB );
IF NOT .STATUS THEN LEAVE MOD_ID;
                                       1556
1557
1558
                                       1559
                                       1560
1561
1562
1563
1564
1565
1566
1567
1576
1571
1573
1576
1577
1578
                                                                        We will now loop through all the holder records and modify them by reading in the ident record, change the value, delete the old record record and write out the new one. The old one must be deleted not updated because we are modifying the primary key.
    1570
    1571
    1572
1573
    1574
1575
1576
                                                                   RAB[RAB$L_KBF] = ID;
RAB[RAB$W_USZ] = KGB$K_IDENT_RECORD;
RAB[RAB$L_ROP] = RAB$M_LIM OR RAB$M_WAT OR RAB$M_RLK OR RAB$M_ULK;
    1577
1578
                                                                    WHILE 1 DO
                                                                             BEGIN
    1579
    1580
1581
1582
1583
1584
1585
1586
1587
                                                                             STATUS = $GET (RAB = RAB);
IF (.STATUS EQLU RMS$ EOF) OR (.STATUS EQLU RMS$ RNF) THEN EXITLOOP;
IF NOT .STATUS THEN LEAVE MOD_ID;
                                                                             REC_BUFF[KGB$L_IDENTIFIER] = .NEW_ID ;
                                                                              STATUS = $DELETE ( RAB = RAB )
                                                                              IF NOT . STATUS THEN LEAVE MOD ID ;
```

RDI VO

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$MOD_IDENT_ID - Modify identifier value 14-Sep-1984 12:40:52
RDBSHR
V04-000
                                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742 CLOADSS.SRCJRDBSHR.B32;1
                                                                                                                                                                                                                                                                                   48
                                                                                                                                                                                                                                                                         Page
  STATUS = SPUT ( RAB = RAB ) ;
IF NOT .STATUS THEN LEAVE MOD_ID ;
                                                                    END :
                                                               Now fix all the holder records
                                                          SREWIND ( RAB = RAB );

OLD_HOLDER[0] = .ID;

OLD_HOLDER[1] = 0;

NEW_HOLDER[0] = .NEW_ID;

NEW_HOLDER[1] = 0;

RAB[RABSB_KRF] = 1;

RAB[RABSB_KRF] = 1;

RAB[RABSB_KSZ] = KGBSS_HOLDER;

RAB[RABSW_USZ] = KGBSK_HOLD_RECORD;

WHILE 1 DO

BEGIN
                                  1596
1597
1598
1599
1600
1601
1603
1604
1605
1606
1609
1610
                                                                    BEGIN
                                                                   STATUS = $GET (RAB = RAB);
IF (.STATUS EQLU RMS$ EOF) OR (.STATUS EQLU RMS$ RNF) THEN EXITLOOP;
IF NOT .STATUS THEN LEAVE MOD_ID;
                                                                    CH$MOVE ( KGB$S_HOLDER, NEW_HOLDER, REC_BUFF[KGB$Q_HOLDER]);
                                                                    STATUS = SUPDATE ( RAB = RAB ) :
IF NOT .STATUS THEN LEAVE MOD_ID ;
                                                                    END
                                  1612
1613
1614
1615
1616
1617
1618
                                                           STATUS = SS$_NORMAL ;
                                                           END :
                                                                                                      ! End of MOD_ID
                                                       Clean up locks.
                                                   SFREE ( RAB = RAB ) :
                                  1620
1621
1623
1624
1625
1626
1627
1628
1629
1630
                                                       Restore RAB
                                                  RAB[RAB$B_KRF] =
RAB[RAB$B_KSZ] =
RAB[RAB$L_KBF] =
RAB[RAB$L_RAC] =
RAB[RAB$L_ROP] =
RAB[RAB$L_USZ] =
                                                                                      .KRFSAV
                                                                                       .KBFSAV
.RACSAV
.ROPSAV
.USZSAV
                                                       Get back to the beginning
                                                         .STATUS THEN STATUS = $REWIND ( RAB = RAB ) ;
```

RDE

RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS\$MOD_IDENT_ID - Modify identifier value 14-Sep-1984 12:40:52 VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1 RETURN .STATUS : END ! End of SYS\$MOD_IDENT_ID .PSECT \$PLIT\$, NOWRT, NOEXE, 2 00000000 LONG EXTRN SYS SDELETE \$CODE\$, NOWRT, 2 D:
Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
#40, SP
RAB PTR, R6
36(R6), R11
53(R6), KRFSAV
52(R6), KSZSAV
48(R6), R7
(R7), KBFSAV
30(R6), RACSAV
4(R6), R10
(R10), ROPSAV
32(R6), R9
(R9), USZSAV
#1, 30(R6)
#4, 52(R6)
NEW_ID, (R7)
#48, (R9)
#1048584, (R10)
R6 OFFC 00000 SYS\$MOD_IDENT_ID: WORD SUBL 2 1467 00002 00005 00009 000017 00018 00017 00024 00022 00024 00025 00037 00037 00049 00049 00049 00065 00066 2000000E009B9B9B0DFDE9D19B0DFDE9B0DFDD131 1513 1514 1527 1528 1529 044540 MOVL MOVL 14 MOVB MOVB BAVOM 0C 08 MOVL 1E 04 1530 1531 MOVB MOVAB 04 MOVL MOVAB 1532 MOVW 1540 1542 1543 1544 1545 1546 1E 34 MOVB MOVW 00 MOVAB MOVW 00100008 MOVL R6 PUSHL SYSSFIND STATUS 0000000G 00 58 04 58 8F CALLS MOVL RO. STATUS, 1\$ #148, STATUS STATUS, #98994 1547 MOVZBL 000182B2 CMPL BNEQ 1548 67 P.AAP, (R7) #64 (R9) #917504, (R10) 1554 1555 1556 1557 0000' MOVAB 000E0000 MOVZBW MOVL R6 #1, SYS\$GET R0, STATUS STATUS, 3\$ ID, (R7) #48, (R9) #933888, (R10) PUSHL 00 58 51 67 68 0000000G MOVL BLBC 1558 1566 1567 MOVAB 08 MOVW 1568 1572 000E4000 MOVL R6 #1, SYS\$GET R0, STATUS STATUS, #98938 PUSHL 00 58 8F 000000006 MOVL 1573 0001827A CMPL BEQL STATUS, #98994 000182B2 CMPL

RDBSHR V04-000

1645 1646 1647

v04-000	RDBSHR - Righ SYS\$MOD_IDEN	11_10 -		identii		14-5ep	BEQL BLBC		Page 50 (9)
			68 68	OC	AC DO 00	0083 0087 0089	MOVL	STATUS, 68 NEW_ID, (R11)	1574 1576 1578
	0	0000000G	00 58 72		50 DO 00	000	PUSHL CALLS MOVL BLBC PUSHL CALLS	R6 #1, SYS\$DELETE RO, STATUS STATUS, 8\$	1579 1581
	0	00000006	00 58 BD		01 FB 00 50 D0 00 58 E8 00	0008 0008 0007	CALLS MOVL BLBS BRB	R6 #1, SYS\$PUT RO, STATUS STATUS, 2\$	1581
	0	000000000 000000000	00 AE	08	56 DD 00	0005 38: 0007 48: 0009	PUSHL CALLS MOVE	8\$ R6 #1, SYS\$REWIND ID, OLD_HOLDER	1590 1591
		18	AE	08 24 00	AE D4 00 AC DO 00 AE D4 00	00E5 00E8 00ED	CLRL MOVL CLRL MOVAB	NEW_ID, NEW HOLDER	1591 1592 1593
		34	67 A6 69	0108	AE 9E 00 8F BO 00 10 BO 00	00F0 00F4 00FA 00FD 5\$:	MOVM	ID. OLD HOLDER OLD HOLDER+4 NEW ID. NEW HOLDER NEW HOLDER+4 OLD HOLDER, (R7) #264, 52(R6) #16, (R9) R6	1594 1596 1597 1598 1601
		00000000G 0001827A	00 58 8F		01 FB 00 50 D0 00 58 D1 00	00 F F 0106 0109 0110	PUSHL CALLS MOVL CMPL BEQL	#1, SYS\$GET RO, STATUS STATUS, #98938	1602
	0	000182B2	8F		58 D1 00	112	CMPL BEQL	STATUS, #98994	•
	08 AB	18	1A AE		58 E9 00 08 28 00 56 DD 00	118 6\$: 111E 1124	BLBC MOVC3 PUSHL CALLS	STATUS, 8\$ #8, NEW_HOLDER, 8(R11) R6	1603 1607
	0	00000000	00 58 CA		01 FB 00 50 D0 00 58 E8 00	1120 1120 1130	MOVL BLBS BRB	W1, SYSSUPDATE R0, STATUS STATUS, 5\$	1608
			58		01 DO 00 56 DD 00	135 78: 138 88:	MOVI	#1. STATUS	1612 1619
	0	000000006 35 34	00 A6 A6 67	14 10 00 08 04	01 FB 00 AE 90 00 AE 90 00	13A 1141 1146	PUSHL CALLS MOVB MOVB MOVL MOVB	#1, SYS\$FREE KRFSAV, 53(R6) KSZSAV, 52(R6)	
		1E	A6 6A 69 00	08	AE 90 00 AE DO 00 AE DO 00 AE DO 00 6E BO 00 58 E9 00	126 120 130 133 135 138 138 134 141 146 148 1158 1158 1158 1158 1160 1167 1160 1167	MOVB MOVL MOVW BLBC PUSHL CALLS	#1, STATUS R6 #1, SYS\$FREE KRFSAV, 53(R6) KSZSAV, 52(R6) KBFSAV, (R7) RACSAV, 30(R6) ROPSAV, (R10) USZSAV, (R9) STATUS, 9\$	1624 1625 1626 1627 1628 1629 1634
	0	000000006	00 58 50		56 DD 00 01 FB 00 50 DO 00 58 DO 00 04 00	915E 9160 9167 916A 98:	PUSHL CALLS MOVL MOVL	R6 #1, SYS\$REWIND RO, STATUS STATUS, RO	1635 1637 1639

[;] Routine Size: 366 bytes, Routine Base: \$CODE\$ + OBA8

^{; 1648 1640 1}

```
H 11
16-Sep-1984 01:48:50
14-Sep-1984 12:40:52
RDBSHR
V04-000
                             RDBSHR - Rights database loadable system servic SYSSMOD_IDENT_NAME - Modify identifier ame
                                                                                                                                                               VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1
                                                                                                                                                                                                                                       (10)
                                           %SBTTL 'SYS$MOD_IDENT_NAME - Modify identifier ame'
ROUTINE SYS$MOD_IDENT_NAME ( RAB_PTR, ID, NEW_NAMLEN, NEW_NAMADR) =
1650
1651
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1653
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1676
1677
1678
1678
                             1++
                                               FUNCTIONAL DESCRIPTION:
                                                          This routine modifies the name of the specified identifier.
                                               CALLING SEQUENCE: SYS$MOD_IDENT_NAME ( RAB_PTR, ID, .NEW_NAMLEN, .NEW_NAMADR)
                                               INPUT PARAMETERS: RAB_PTR:
                                                                                      Address of RAB for the open rights data base file identifier longword Length of new name string Address of new name string
                                                          ID:
                                                          NEW_NAMLEN:
                                               IMPLICIT INPUTS:
                                                          NONE
                                               OUTPUT PARAMETERS:
                                                          NONE
                                               IMPLICIT OUTPUTS:
                                                          NONE
                                               ROUTINE VALUE:
                                                          Status of operation
                             1671
1672
1673
1674
    1680
1681
1682
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1684
1685
1686
1687
1688
1693
1693
1696
1697
1698
                                               SIDE EFFECTS:
                                                          Identifier record modified
                             1675
1676
1677
1678
1679
                                           BEGIN
                                           LABEL
                              1680
                                                   MOD_NAME :
                             1681
1682
1683
1684
1685
1686
1687
1688
1689
1691
1692
1693
                                           BIND
                                                                                                                   : $RAB DECL , : $BBLOCK ;
                                                                        = .RAB_PTR
                                                   REC_BUFF
                                                                        = .RAB[RAB$L_UBF]
                                            LOCAL
                                                                           BYTE
BYTE
LONG
                                                   KRFSAV
                                                   KSZSAV
                                                   KBFSAV
    1699
1700
                                                   RACSAV
                                                                            BYTE
                                                   ROPSAV
                                                                            LONG
   1701
1702
1703
1704
1705
1706
                                                   USZSAV
                                                                            WORD
                                                   NAME BUFFER : STATUS :
                                                                            $BBLOCK [KGB$S_NAME],
                             1694
1695
                                                                        : LONG
                             1696
1697
                                           KRFSAV = .RAB[RAB$B_KRF] :
KSZSAV = .RAB[RAB$B_KSZ] :
```

RDE

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$MOD_IDENT_NAME - Modify identifier ame 14-Sep-1984 12:40:52
RDBSHR
                                                                                                                                                 VAX-11 Bliss-32 V4.0-742 CLOADSS.SRCJRDBSHR.B32:1
V04-000
                                      KBFSAV = .RAB[RAB$L_KBF]

RACSAV = .RAB[RAB$B_RAC]

ROPSAV = .RAB[RAB$L_ROP]

USZSAV = .RAB[RAB$W_USZ]
                          1698
1699
1700
  1708
1709
                           1701
1702
1703
                                       MOD_NAME:
BEGIN
                          1704
  1714
1715
                          1706
1707
1708
                                                 First find out if there is a record with the new name already
                          1709
1710
  1718
1719
1720
1721
1722
1723
1725
1726
1727
1738
1736
1737
1738
1739
                                              CHSTRANSLATE (EXEST ID UPCASE, NEW NAMLEN, RGBSS_NAME, NAME_BUFFER);
                                                                                                                      .NEW_NAMADR,
                                              RAB[RAB$B_KRF] = 2
                           1711
                                                                                                                          Id name key
                          1712
1713
1714
1715
                                              RAB[RAB$B_KSZ] = KGB$S_NAME;
RAB[RAB$L_KBF] = NAME_BUFFER;
RAB[RAB$L_ROP] = RAB$M_NLK OR RAB$M_RRL;
STATUS = $FIND ( RAB = RAB );
                                                                                                                          Key size
                                                                                                                          Name string address
                                                                                                                         No lock, read regardless
                          1716
1717
                                              IF .STATUS THEN STATUS = SS$_DUPLNAM
                                              IF .STATUS NEQ RMS$_RNF THEN LEAVE MOD_NAME ;
                          1718
1719
                          1720
1721
1722
1723
1724
1726
1726
1727
1738
1731
1733
1736
1737
1738
                                                 The name doesn't exist. Now we will get back to the beginning
                                                 of the file and find the record that needs modification.
                                              STATUS = SREWIND ( RAB = RAB ) :
                                              IF NOT .STATUS THEN LEAVE MOD_NAME ; RAB[RAB$B_KRF] = 0 ;
                                                                                                                          Id value key
                                              RAB[RAB$B_KSZ] = 4 :
RAB[RAB$L_KBF] = ID :
RAB[RAB$L_ROP] = RAB$M_WAT OR
                                                                                                                         Key size
                                                                                                                         ID value address
Wait if locked
                                                                          RABSM_RLK OR
                                                                                                                          Lock record
                                              RAB[RAB$W_USZ] = KGB$K_IDENT_RECORD ;
                                                                                                                          manual unlock
  1740
                                                                                                                         Ident record size
  1741
1742
1743
                                              STATUS = $GET ( RAB = RAB ) :
                                              IF .STATUS EQL RMS$ RNF THEN STATUS = SS$ NOSUCHID ; IF NOT .STATUS THEN LEAVE MOD_NAME ;
  1744
  1745
  1746
                                                 Move the new name into the record and update the file.
  1748
                          1739
                                              CH$MOVE ( KGB$S_NAME, NAME_BUFFER, REC_BUFF[KGB$T_NAME] );
STATUS = $UPDATE ( RAB = RAB );
  1749
                          1740
                          1741
1742
1743
  1750
1751
1752
1753
1754
1755
1756
1757
1758
1759
1760
                                              END :
                                                                               ! End of MOD_NAME
                                          Clean up locks.
                          1746
1747
                                       SFREE ( RAB = RAB ) :
                                          Restore RAB
                          1751
                                       RAB[RAB$B_KRF] = .KRFSAV :
RAB[RAB$B_KSZ] = .KSZSAV :
RAB[RAB$L_KBF] = .KBFSAV ;
  1762
```

**

(10)

```
SYS
```

(10)

VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1

```
RAB[RAB$B_RAC] = .RACSAV
RAB[RAB$L_ROP] = .ROPSAV
RAB[RAB$W_USZ] = .USZSAV
                                1755
1756
1757
1758
1759
1760
1761
1762
1763
1764
1765
   1766
1767
   1768
   1769
1770
                                                    Get back to the beginning
   1771
                                                       .STATUS
                                                         THEN STATUS = SREWIND ( RAB = RAB ) ;
   1774
1775
                                                 RETURN .STATUS ;
   1776
                                                END :
                                                                                                                  ! End of SYS$MOD_IDENT_NAME
                                                                                                                OFFC 00000 SYS$MOD_IDENT_NAME:
                                                                                                                                                                      Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
#40, SP
RAB PTR, R6
36(R6), R8
53(R6), KRFSAV
52(R6), KSZSAV
48(R6)
                                                                                                                                                        . WORD
                                                                                                                                                                                                                                                                      1642
                                                                               5E
56
58
AE
6E
                                                                                                                          00002
                                                                                                                                                        SUBL 2
                                                                                                            2AAAAAAAAA85055855550550A83505550852
                                                                                                                    200099000B2E
                                                                                                 0445530
1040
000
                                                                                                                                                       MOVL
                                                                                                                                                                                                                                                                       1683
                                                                                                                          00009
                                                                                                                                                                                                                                                                       1684
                                                                                                                                                       MOVL
                                                                     04
                                                                                                                          0000D
                                                                                                                                                                                                                                                                       1696
                                                                                                                                                       MOVB
                                                                                                                          00012
                                                                                                                                                                                                                                                                      1697
                                                                                                                                                       MOVB
                                                                                                                          00016
                                                                                                                                                                                                                                                                      1698
                                                                                                                                                       PUSHL
                                                                                                                                                                        30(R6), RACSAV
                                                                               5B
59
BC
A6
A6
A6
                                                                                                                          00019
                                                                                                                                                                                                                                                                      1699
                                                                                                                                                       MOVB
                                                                                                                                                                       30(R6), RACSAV

4(R6), ROPSAV

32(R6), USZSAV

NEW NAMLEN, ONEW NAMADR, #32, —

EXEST_ID_UPCASE, #32, NAME_BUFFER

#544, 52(R6)

NAME_BUFFER, 48(R6)

#1048584, 4(R6)
                                                                                                                          0001D
                                                                                                                                                                                                                                                                      1700
                                                                                                                                                       MOVL
                                                                                                                          00021
                                                                                                                                                       WVOM
                                                                                                                                                                                                                                                                      1701
                                                                     10
0C
34
30
04
                                                   20
                                                                                                                          00025
0000000G
                     00
                                                                                                                                                       MOVIC
                                                                                                                                                                                                                                                                      1709
                                                                                                                           00030
                                                                                                                          00033
00039
                                                                                                                    B0
9E
0D
FB
0E
9A
                                                                                                                                                                                                                                                                      1712
1713
                                                                                              0220
                                                                                                                                                       MOVW
                                                                                     00100008
                                                                                                                                                       MOVAB
                                                                                                                          0003E
00046
00048
                                                                                                                                                       MOVL
                                                                                                                                                                                                                                                                      1714
                                                                                                                                                                       R6
#1, SYS$FIND
R0, STATUS
STATUS, 1$
#148, STATUS
STATUS, #98994
3$
                                                                                                                                                       PUSHL
                                                         00000000G
                                                                               00
57
04
57
8F
                                                                                                                                                       CALLS
                                                                                                                          0004F
00052
00055
                                                                                                                                                       MOVL
                                                                                                                                                       BLBC
                                                                                                                                                                                                                                                                      1716
                                                                                                  94
                                                                                                                                                       MOVZBL
                                                                                                                         00059
00060
00062
00068
0006E
00071
00075
00088
00088
00086
00092
00099
00098
                                                         00018282
                                                                                                                    0120FB090B0FB012C98
                                                                                                                                                       CMPL
                                                                                                                                                                                                                                                                      1717
                                                                                                                                                       BNEQ
                                                                                                                                                                                                                                                                      1723
                                                                                                                                                       PUSHL
                                                                                                                                                                       #1, SYS$REWIND

R0, STATUS

STATUS, 3$

#4, 52(R6)

ID, 48(R6)

#917504, 4(R6)

#48, 32(R6)
                                                         00000000G
                                                                                                                                                       CALLS
                                                                                                                                                       MOVL
                                                                               44
A6
A6
A6
                                                                     34
30
04
20
                                                                                                                                                       MOVW
                                                                                     000E0000
                                                                                                                                                       MOVAB
                                                                                                                                                       MOVL
                                                                                                                                                       MOVW
                                                                                                                                                                       R6
#1, SYS$GET
R0, STATUS
STATUS, #98994
                                                                                                                                                       PUSHL
                                                         000000006
                                                                                                                                                       CALLS
                                                                                                                                                       MOVL
                                                                                                                                                       CMPL
BNEQ
                                                                                                                                                                                                                                                                      1733
                                                         00018282
                                                                                                                                                                      #8684, STATUS
STATUS, 3$
#32, NAME_BUFFER, 16(R8)
                                                                               57
12
AE
                                                                                              21EC
                                                                                                                                                       MOVZWL
                                                                                                                                                                                                                                                                     1734
1739
                                                                                                                                                       BLBC
                                        10
                                                   A8
                                                                     00
                                                                                                                                                       MOVC 3
```

RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS\$MOD_IDENT_NAME - Modify identifier ame 14-Sep-1984 12:40:52

RDBSHR

V04-000

RDBSHR V04-000	RDBSHR - Rights databa SYS\$MOD_IDENT_NAME -	se load Modif	lable sy y ideni		servic r ame	K 11 16-Sep- 14-Sep-	1984 01:41 1984 12:41	B:50 0:52	VAX-11 Bliss-32 V4.0-742 [LOADSS.SRC]RDBSHR.B32;1	Page 54
	000000006 000000006 35 34 30 1E 04 20	57 00 A6 A6 A6 A6 A6	08	56 01 56 01 AE 65B 55A	DD 000 FB 000 DD 000 FB 000 90 000 PO 000 PO 000 PO 000	AB B2 B5 B5 B6 C3 C8 C0	PUSHL CALLS MOVL PUSHL CALLS MOVB MOVL MOVB MOVL	RO. R6 W1 KRFS KSZS	SYS\$UPDATE STATUS SYS\$FREE AV, 53(R6) AV, 52(R6) AV, 48(R6) AV, 48(R6) AV, 4(R6) AV, 4(R6) AV, 32(R6)	1740 1740 1750 1750 1750 1750 1750 1750 1760
	000000006	A6 0C 00 57 50		59 57 56 01 50 57	BO 000 E9 000 DD 000 FB 000 DO 000 04 000	08 08 00 E4	MOVW BLBC PUSHL CALLS MOVL MOVL RET	R6 #1,	AV, 32(R6) US, 48 SYS\$REWIND STATUS US, RO	175 176 176

; Routine Size: 235 bytes, Routine Base: \$CODE\$ + 0D16

: 1777 1768 1

SYS

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYSSREM_HOLDER - remove holder record 14-Sep-1984 12:40:52
RDBSHR
                                                                                                                                         VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1
V04-000
                                    **SBTTL ' SYS$REM HOLDER - remove holder record' GLOBAL ROUTINE SYS$REM_HOLDER (ID, HOLDER) =
  1783
1784
1785
1786
1787
1788
1789
1790
1791
1793
1794
1796
1797
1798
1799
1800
1801
1805
1806
1807
1808
                                        FUNCTIONAL DESCRIPTION:
                                                 This routine removes the specified holder record.
                                        CALLING SEQUENCE:
SYSSREM_HOLDER (ID, HOLDER)
                                        INPUT PARAMETERS:
                                                 ID:
                                                             identifier longword
                                                 HOLDER: address of the holder identifier quadword
                                        IMPLICIT INPUTS:
                                        OUTPUT PARAMETERS:
                         1789
1790
1791
1792
1793
                                                 NONE
                                        IMPLICIT OUTPUTS:
                                                 NONE
                         1794
1795
1796
1797
                                        ROUTINE VALUE:
                                                 Status of operation
                                        SIDE EFFECTS:
                         1798
1799
                                                 Holder record removed
   1809
                          800
   1810
                         801
802
                                     BEGIN
                                     LOCAL
                                                 LOC_ID
LOC_HOLDER
HOLDER_ID
                                                                                                       local copy of ID local copy of HOLDER
                                                                             REF VECTOR,
VECTOR [2],
                                                                                                      local copy of holder id quadword
                                                                          : LONG, general status value
: LONG, call to EXESCLOSE RDB required flag
: $RAB_DECL, RAB for file operations
: $BBLOCK [KGB$K_IDENT_RECORD];
! buffer to read records
                                                 STATUS
                                                 CLOSE
                                                 RAB
                                                 REC_BUFFER
                                     LABEL
                                                 RDB_OPEN;
                                                                                                   ! rights database is open in this block
                                        Validate parameters
                                     LOC ID = .ID:
IF T.LOC ID AND UICSM_ID_FORM_FLAG) NEQU O
  1834
1835
                                            (IF (.LOC_ID GTRU UIC$K_LAST_ID) THEN RETURN SS$_IVIDENT)
```

SYS

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$REM_HOLDER - remove holder record 14-Sep-1984 12:40:52
RDBSHR
V04-000
                                                                                                                                 VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1
                                                                                                                                                                                     Page 56 (11)
                                         (IF (.LOC_ID GTRU UIC$K_MAX_UIC) OR (.LOC_ID EQL 0) THEN RETURN SS$_IVIDENT);
                                  LOC HOLDER = .HOLDER;
IF NOT PROBER (%REF(0), %REF(8), .LOC_HOLDER) THEN RETURN SS$_ACCVIO;
HOLDER_ID[0] = .LOC_HOLDER[0];
HOLDER_ID[1] = .LOC_HOLDER[1];
IF .HOLDER_ID[0] GTRU UIC$K_MAX_UIC OR .HOLDER_ID[1] NEQU 0
  1840
1841
1842
1843
                                   THEN
                                         RETURN SS$_IVIDENT;
                                      Get the rights database open for write.
                                   $RAB_INIT (RAB = RAB,
  1850
                                                   RAC = KEY,
  1851
                                                   KRF = 0
                                                   KBF = LOC_ID.
                                                   KSZ = 4
                                                   ROP = (LIM, WAT, RLK, ULK),
UBF = REC_BUFFER,
                                                   USZ = KGB$K_1DENT_RECORD
                                   STATUS = EXÉSOPEN RDB (0, 1, RAB[RAB$W_ISI], CLOSE);
IF NOT .STATUS THEN RETURN .STATUS;
  1858
  1859
   1860
   1861
                                   RDB_OPEN:
  1862
                                         BEGIN
  1863
  1864
                                           Read and lock the ident record.
  1865
  1866
  1867
                                         STATUS = $GET (RAB = RAB);
  1868
                                         IF .STATUS EQLU RMS$_RNF THEN STATUS = SS$_NOSUCHID;
                                         IF NOT .STATUS
                       1860
1861
1862
1863
1864
1865
1866
                                         THEN
                                              BEGIN
SFREE (RAB = RAB);
                                               LEAVE RDB_OPEN;
                                              END:
                                           Read the holder records looking for the specified one.
  1878
1879
1880
1881
1882
1883
1884
1885
1886
1889
1890
1891
                                        RAB[RAB$V_ULK] = 0;
RAB[RAB$B_RAC] = RAB$C_SEQ;
                                         WHILE 1 DO
                                               BEGIN
                                               STATUS = SGET (RAB = RAB);
                                               IF .STATUS EQLU RMS$ EOF OR .STATUS EQLU RMS$ OK LIM
                                               THEN
                                                    BEGIN

$FREE (RAB = RAB);

STATUS = SS$ NOSUCHID;
                                                     LEAVE RDB_OPEN;
                                                     END:
   1892
                                               IF CHSEQL (KGBSS_HOLDER, HOLDER_ID[O], KGBSS_HOLDER, REC_BUFFER[KGBSQ_HOLDER])
```

545 V04

```
N 11
16-Sep-1984 01:48:50
14-Sep-1984 12:40:52
                         RDBSHR - Rights database loadable system servic SYS$REM_HOLDER - remove holder record
                                                                                                                                           VAX-11 Bliss-32 V4.0-742
ELOADSS.SRCJRDBSHR.B32;1
RDBSHR
                                                                                                                                                                                                    Page
V04-000
  1893
1894
1895
                                                  THEN
                                                         EXITLOOP:
                                                  END:
  1896
1897
1898
                                               Delete the located record.
  1899
1900
1901
1902
1903
1904
1905
1906
1909
1910
1911
1912
1913
                                            STATUS = $DELETE (RAB = RAB);
                                            SFREE (RAB = RAB);
                                            END:
                                        Close the rights database if there is no image
                         1896
1897
                                      IF .CLOSE THEN EXESCLOSE_RDB(); IF .STATUS
                         1898
                         1899
                                      THEN
                         1900
                                            RETURN SS$_NORMAL
                         1901
1902
                                      ELSE
                                            RETURN .STATUS;
                         1903
  1914
                         1904
                                     END:
                                                                                                     ! End of routine SYS$REM_HOLDER
                                                                                                                                 SYS$REM_HOLDER, Save R2,R3,R4,R5,R6,R7
SYS$FREE, R7
SYS$GET, R6
-128(SP), SP
                                                                                      00FC 00000
9E 00002
                                                                                                                                                                                                           1770
                                                                 000000006
000000006
80
04
                                                                                                                     MOVAB
                                                                                   00ACBEF3EAE6C04C
                                                                                               00009
                                                                                                                     BAVOM
                                                                                               00010
                                                                                                                     BAVOM
                                                                                               00014
                                                                                                                                                                                                           1821
1822
1824
                                                                                                                     PUSHL
                                                                                              00017
                                                                                                                     BGEQ
                                                                                                                                  LOC_ID, #-1879048193
                                            8FFFFFFF
                                                                                                                     CMPL
                                                                                              00020
                                                                                                                     BLEQU
                                                                                                                     BRB
                                                                                                                                 LOC_ID, #1073741823
                                                                                              00024 18:
0002B
0002D
0002F
                                            3FFFFFFF
                                                                                          1826
                                                                                                                     CMPL
                                                                                                                     BGTRU
                                                                                                                                 LOC_ID
                                                                                                                     TSTL
                                                                                                                                 HOLDER, LOC HOLDER
NO. NB. (LOC HOLDER)
                                                                                                                     BEQL
                                                             50
08
                                                                                                                                                                                                           1828
1829
                                                                            08
                                                                                                                     MOVL
                                       60
                                                                                                                     PROBER
                                                                                                                     BNEQ
                                                                                                                                 #12, RO
                                                              50
                                                                                                                     MOVL
                                                                                                                     RET
                                                                                   60
A0
AE
05
                                                                                                                                 (LOC HOLDER), HOLDER ID 4 (LOT HOLDER), HOLDER ID+4 HOLDER ID, #1073741823
                                                                                                                                                                                                           1850
1851
1852
                                                                                                                     MOVL
                                                             AD
8F
                                                                           04
7C
                                                                                                                     MOVL
                                                                                                                     CMPL
                                                                                               00048
00050
00052
00055
00057
0005C
0005D
00064
00066
                                                                                                                     BGTRU
                                                                                    AD
06
8F
                                                                           FC
                                                                                                                     TSTL
                                                                                                                                 HOLDER_ID+4
                                                                                                                     BEQL
                                                                         2224
                                                                                                                                                                                                           1834
                                                             50
                                                                                                                     MOVZWL
                                                                                                                                 #8740, RO
                                                                                                                     RET
                                                                                    00
AE
8F
8F
                                                                                                                     MOVC5
                                                                                                                                                                                                           1847
                                       00
                                                                                                                                  #0, (SP), #0, #68, $RMS_PTR
                                                                  000E4000
                                                                                                                                 #17409, $RMS_PTR
#933888, $RMS_PTR+4
                                                                                                                     MOVW
                                                                                                                     MOVL
```

SYS

RDBSHR V04-000	RDBSHR - Rights database SYS\$REM_HOLDER - re	ase loadable emove holder	system ser	vic 16-Sep-19	984 01:48 984 12:40	SO VAX-11 BLiss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1	Page 58 (11)
	56 58 50 68 60	AE AE OS	01 90 30 B0 AE 9E 6E 9E 04 90 AE 9F AE 9F	00074 00078 0007C 00081 00085 00089	MOVB MOVAB MOVAB MOVB PUSHAB	\$2 [LOADSS.SRC]RDBSHR.B32;1 #1 SRMS PTR+30 #48, SRMS PTR+32 REC_BUFFER, SRMS PTR+36 LOC_ID, SRMS PTR+48 #4, SRMS_PTR+52 CLOSE RAB+2 #1	1848
	000000006	9F 54 76	7E D4 04 FB 50 D0 54 F9	00093 0009A 0009D	CALLS MOVL BLBC PUSHAB	#4, a#EXE\$OPEN_RDB RO, STATUS STATUS, 13\$ RAB	1849 1857
	00018282	66 54 8F	54 D1	000A3 000A6 000A9 000B0	CALLS MOVL CMPL BNEQ MOVZWL	#1, SYS\$GET RO, STATUS STATUS, #98994 6\$	1858
	3E	54 21EC 44 AE 56	8F 3C	000B2	BLBC BICB2 CLRB PUSHAB	#8684, STATUS STATUS, 10\$ #4, RAB+6 RAB+30	1859 1869 1870 1873
	0001827A	66 54 8F		000BA 000BE 000C1 7\$: 000C4 000C7 000CA 000D1 000D3	MOVE CWDF BEOF	#1, SYS\$GET RO. STATUS STATUS, #98938 8\$	1874
	00018051	8F 38 67 54 21EC	01 FB	000DF	CMPL BNEQ PUSHAB	STATUS, #98385 9\$ RAB #1, SYS\$FREE #8684, STATUS	1877
	10 AE 7C	AE 21EC	08 29	000E2 000E7 000E9 9\$: 000EF	CMPC3	#8. HOLDER_ID, REC_BUFFER+8	1878 1879 1882
	000000006	54		000F1 000F4 000FB 000FE 10\$:	PUSHAB CALLS MOVL PUSHAB	RAB #1, SYS\$DELETE RO. STATUS RAB	1890
	00000000G	38 67 07 9F 04 50	01 FB 00 FB 54 F9	00101 00104 11\$: 00108 0010F 12\$:	BLBC CALLS BLBC MOVL	RAB #1. SYS\$FREE CLOSE, 12\$ #0, a#EXE\$CLOSE_RDB STATUS, 13\$ #1, RO	1891 1897 1898 1902
		50	54 00 04	00112 00115 00116 13\$: 00119	RET MOVL RET	STATUS, RO	1904

Routine Base: \$CODE\$ + 0E01

; Routine Size: 282 bytes,

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$REM_IDENT - remove identifier from RDB 14-Sep-1984 12:40:52
RDBSHR
                                                                                                                       VAX-11 Bliss-32 V4.0-742 CLOADSS.SRCJRDBSHR.832;1
                                                                                                                                                                        Page 59 (12)
V04-000
  *SBTTL ' SYS$REM_IDENT - remove identifier from RDB'
                     GLOBAL ROUTINE SYSSREM_IDENT (ID) =
                                   FUNCTIONAL DESCRIPTION:
                                           This routine removes the specified identifier from the rights
                                           database.
                                   CALLING SEQUENCE:
                                           SYSSREM_IDENT (ID)
                                   INPUT PARAMETERS:
                                                     identifier longword
                                           ID:
                                   IMPLICIT INPUTS:
                                           NONE
                                   OUTPUT PARAMETERS:
  1936
1937
                                           NONE
  1938
                                   IMPLICIT OUTPUTS:
  1939
                                           NONE
  1940
  1941
                                   ROUTINE VALUE:
  1942
                                           Status of operation
  1944
                                  SIDE EFFECTS:
                                           Identifier record removed
  1945
  1946
  1947
  1948
  1949
                                BEGIN
  1950
  1951
                                LOCAL
  1952
1953
                                                                : VECTOR [2] INITIAL (0,0),
                                           LOC_ID
                                                                                         local copy of ID
                                                                                        general status value call to EXESCLOSE_RDB required flag RAB for file I/O
  1954
                                           STATUS
                                                                 : LONG.
                                                                 : LONG,
                                                               : LONG,
: $RAB DECL, ! RAB for Tite
: $BBLOCK [RAB$S RFA],
! RFA of ident record
: $BBLOCK [KGB$K IDENT RECORD];
! Record buffer
  1955
                                           CLOSE
  1956
                                           RAB
  1957
                                           IDENT_RFA
  1958
  1959
                                           REC_BUFFER
  1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
                     1951
1952
1953
1954
1955
1956
                                LABEL
                                                                                      ! rights database is open in this block
                                           RDB_OPEN;
                                   Validate ID
                                LOC ID[0] = .ID;
IF T.LOC ID[0] AND UIC$M_ID_FORM_FLAG) NEQU O
                     1958
1959
                                THEN
                                      (IF (.LOC_IDEO] GTRU UIC$K_LAST_ID) THEN RETURN SS$_IVIDENT)
  1971
                     1960
                             2 ELSE
                     1961
  1972
```

SY

```
SY
```

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$REM_IDENT - remove identifier from RDB 14-Sep-1984 12:40:52
RDBSHR
V04-000
                                                                                                                                 VAX-11 Bliss-32 V4.0-742
LLOADSS.SRCJRDBSHR.B32;1
   1973
1974
                                         (IF (.LOC_IDEO] GTRU UIC$K_MAX_UIC) OR (.LOC_IDEO] EQL 0) THEN RETURN SS$_IVIDENT);
                        1964
   1975
                                      Open the rights database for writing.
   1976
   1977
                        1966
   1978
                        1967
                                   $RAB_INIT (RAB = RAB,
   1979
                        1968
                                                   RAC = KEY.
   1980
                                                   KRF = 1
                                                   KSZ = KGB$S_HOLDER,
KBF = LOC_ID[O],
   1981
                                                   USZ = KGB$K IDENT_RECORD,
UBF = REC BUFFER,
ROP = (LIM, WAT, RLK, ULK)
   1983
    1985
   1986
                                   STATUS = EXESOPEN RDB (0, 1, RAB[RAB$W_ISI], CLOSE);
IF NOT .STATUS THEN RETURN .STATUS;
   1987
   1988
                        1978
   1989
                                   RDB_OPEN:
BEGIN
   1990
                        1980
1981
   1991
    1993
                                            Delete holder records held by this id
                        1984
   1995
                        1985
                                         STATUS = $GET (RAB = RAB);
IF NOT .STATUS AND .STATUS NEQU RMS$_RNF THEN LEAVE RDB_OPEN;
                        1986
1987
1988
1989
   1998
                                         IF .STATUS
   1999
                                         THEN
   2000
                                               BEGIN
                        1990
1991
                                               RAB[RAB$B_RAC] = RAB$C_SEQ;
WHILE 1 DO
   2001
   1992
1993
                                                     BEGIN
                                                     STATUS = $DELETE (RAB = RAB);
                        1994
1995
                                                     IF NOT .STATUS
                                                     THEN
                        1996
1997
                                                          SFREE (RAB = RAB);
                        1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2010
2011
2013
2016
2017
2018
                                                           LEAVE RDB_OPEN;
                                                           END;
                                                     STATUS = $FIND (RAB = RAB);
                                                     IF .STATUS EQLU RMS$_EOF OR .STATUS EQLU RMS$_OK_LIM
                                                     THEN
                                                           EXITLOOP.
                                                     IF NOT .STATUS
                                                     THEN
                                                           BEGIN
SFREE (RAB = RAB);
                                                           LEAVE RDB_UPEN;
                                                           END:
                                                     END:
                                               END:
                                            Now delete all holders of this identifier
                                         RAB[RAB$B_RAC] = RAB$C_KEY;
RAB[RAB$B_KRF] = 0;
RAB[RAB$B_KSZ] = 4;
```

```
RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$REM_IDENT - remove identifier from RDB 14-Sep-1984 12:40:52
RDBSHR
V04-000
                                                                                                                     VAX-11 Bliss-32 V4.0-742 LLOADSS.SRCJRDBSHR.B32;1
  First locate and lock the identifier record.
                                     STATUS = $GET (RAB = RAB);
IF .STATUS EQLU RMS$_RNF THEN STATUS = SS$_NOSUCHID;
IF NOT .STATUS
                                     THEN
                                          BEGIN
SFREE (RAB = RAB);
LEAVE RDB_OPEN;
                                     END:
CH$MOVE (RAB$S_RFA, RAB[RAB$W_RFA], IDENT_RFA);
                                       Now sequentially locate all the holder records and delete them.
                                     RAB[RAB$B_RAC] = RAB$C_SEQ;
RAB[RAB$V_ULK] = 0;
WHILE 1 DO
                                           BEGIN
                                           STATUS = $FIND (RAB = RAB):
                                          IF .STATUS EQLU RMSS_EOF OR .STATUS EQLU RMSS_OK_LIM THEN
                                                EXITLOOP:
                                           IF NOT .STATUS
                                          THEN
                                                BEGIN
                                                SFREE (RAB = RAB):
                                                LEAVE RDB_OPEN;
                                                END:
                                          STATUS = $DELETE (RAB = RAB);
                                          IF NOT .STATUS
                                           THEN
                                               BEGIN
SFREE (RAB = RAB);
                                               LEAVE RDB_OPEN;
                                               END:
                                          END:
                                       Finally, re-locate and delete the identifier record.
                                     RABERABSB_RAC] = RABSC_RFA;
CH$MOVE (RABSS_RFA, IDENT_RFA, RABERABSW_RFA]);
STATUS = $FIND (RAB = RAB);
                                     IF NOT .STATUS
                                     THEN
                                          SFREE (RAB = RAB);
                                          LEAVE ROB_OPEN;
                                     STATUS = $DELETE (RAB = RAB);
                                     SFREE (RAB = RAB);
                                     END:
```

SY

```
RDBSHR
V04-000
                             RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 SYS$REM_IDENT - remove identifier from RDB 14-Sep-1984 12:40:52
                                                                                                                                                           VAX-11 Bliss-32 V4.0-742 ELOADSS.SRCJRDBSHR.B32;1
                                                                                                                                                                                                                           Page
    2087
2088
2089
2090
2091
2093
2095
2096
2098
2077
2077
2078
2079
2080
2081
2082
2083
2084
2086
2087
                                              Close the rights database if there is no image
                                          IF .CLOSE THEN EXESCLOSE_RDB();
IF .STATUS
                                           THEN
                                                  RETURN SS$_NORMAL
                                                  RETURN .STATUS;
                                          END:
                                                                                                                 ! End of routine SYS$REM_IDENT
                                                                                                 03FC
9E
9E
9E
7C
D0
                                                                                                                                                SYS$REM_IDENT, Save R2,R3,R4,R5,R6,R7,R8,R9
SYS$GET, R9
SYS$FIND, R8
SYS$DELETE, R7
-136(SP), SP
                                                                                                         00000
                                                                                                                                    .ENTRY
                                                                                                                                                                                                                                  1906
                                                                         000000006
000000006
000000006
FF78
F8
04
                                                                     59
58
57
5E
                                                                                              00
00
00
CE
AD
AC
0C
AD
17
                                                                                                                                   MOVAB
                                                                                                          00009
                                                                                                                                   MOVAB
                                                                                                          00010
                                                                                                                                   MOVAB
                                                                                                          00017
                                                                                                                                   MOVAB
                                                                                                                                                 LOC_ID
ID. LOC_ID
1$
                                                                                                                                                                                                                                  1938
1957
1958
1960
                                                                                                          0001C
                                                                                                                                   CLRQ
                                                                     AD
                                                                                                          0001F
                                                                                                                                   MOVL
                                                                                                          00024
                                                                                                                                                 LOC_ID. #-1879048193
                                                                                                                                   BGEQ
                                                                                                          00026
0002E
00030
                                                                                                    D1
1B
                                                                                                                                   CMPL
                                                  8FFFFFFF
                                                                                     F8
                                                                                                                                   BLEQU
                                                                                              OF
                                                                                                                                   BRB
                                                                                                                                                LOC_ID. #1073741823
                                                                                                          00032 15:
                                                  3FFFFFFF
                                                                                     F8
                                                                                              AD
05
AD
06
8F
                                                                                                    D1 A52040
                                                                                                                                                                                                                                  1962
                                                                                                          0003A
                                                                                                                                   BGTRU
                                                                                     F8
                                                                                                          0003C
                                                                                                                                   TSTL
                                                                                                                                                 LOC_ID
                                                                                                          0003F
                                                                                 2224
                                                                                                          00041
                                                                                                                                                 #8740, RO
                                                                     50
                                                                                                                                   MOVZWL
                                                                                                          00046
                                                                                                                                   RET
       0044
                                            00
                                                                                             00 AEF 851 30 AED 85 AED 7040 56
                                                                                                                                   MOVC5
                                                                                                                                                                                                                                  1975
                                                                     6E
                                                                                                                                                 #0, (SP), #0, #68, $RMS_PTR
                                                                                                           0004E
                                                                                                                                                #17409, $RMS_PTR
#933888, $RMS_PTR+4
#1, $RMS_PTR+30
#48, $RMS_PTR+32
REC_BUFFER, $RMS_PTR+36
LOC_ID, $RMS_PTR+48
#264, $RMS_PTR+52
                                                                          000E4000
                                                                                                          00050
                                                                                                    B0
90
90
9E
9E
B0
9F
                                                                                                                                   MOVW
                                                                     AE AE AE AE AE
                                                            3045
506
60
70
                                                                                                          00056
                                                                                                                                   MOVL
                                                                                                          0005E
                                                                                                                                   MOVB
                                                                                                          00062
                                                                                                                                   WVOM
                                                                                 04
F8
0108
                                                                                                          00066
                                                                                                                                   MOVAB
                                                                                                          0006B
00070
                                                                                                                                   MOVAB
                                                                                                                                   MOVW
                                                                                                          00076
                                                                                                                                   PUSHL
                                                                                                                                                                                                                                  1976
                                                                                     42
                                                                                                                                   PUSHAB
                                                                                                                                                 RAB+2
                                                                                                     DD
                                                                                                                                   PUSHL
                                                                                                    D4
FB
                                                                                                                                   CLRL
                                                                                                                                                 -(SP)
                                                                     9F
56
03
                                                                                                                                                 M4. AMEXESOPEN_RDB
                                                  0000000G
                                                                                                                                   CALLS
                                                                                                    00
53
9F
FB
                                                                                                                                   MOVL
                                                                                                                                                 STATUS, 4$
                                                                                                                                   BLBS
                                                                                                                                                                                                                                  1977
                                                                                                                                   BRW
                                                                                          OODF
                                                                                                          0008F
                                                                                                                                                                                                                                  1985
                                                                                                                                   PUSHAB
                                                                                                                                                 RAB
                                                                                                                    48:
                                                                                                                                                #1. SYS$GET
RO. STATUS
STATUS, 6$
STATUS, #98994
5$
                                                                     69
56
0F
                                                                                                          00092
                                                                                                                                   CALLS
                                                                                                     DO
E8
D1
13
                                                                                                                                   MOVL
BLBS
                                                                                                          00098
0009B
                                                                                                                                                                                                                                  1986
                                                  000182B2
                                                                                                                                   CMPL
                                                                                                                                   BEQL
```

SY

SYS\$R	EM_Î	ights databa DENT - rem	se lo							AX-11 Bliss-32 V4.0-742 OADSS.SRCJRDBSHR.B32;1	Page 63 (12)
			2F	5A 3C	00B6 31 56 E9 AE 9F 01 FE 50 D0 56 E9 AE 9F	000A4 000A7 000AA 000B0 000B3 000B6 000B9 000B6	5\$: 6\$: 7\$:	BRW BLBC CLRB PUSHAB CALLS MOVL BLBC PUSHAB CALLS MOVL BLBC EQL CMPL BEQL CMPL BEQL CMPL BEBS BRB MOVB MOVW PUSHAB	14\$ STATUS, RAB+30	8\$	1987 1990
			67 56 79	30	01 FE	000AD	/*:	CALLS	#1, SYSS	DELETE	1993
				30	01 FE 50 DO 56 ES	000B6		BLBC PUSHAB	#1, SYSS RO, STATUS, STATUS, RAB	115	1994
			68 56 8F	-	01 FE 50 DO 56 D1	000BC		MOVL	N1. SYS	FIND	
		0001827A			56 D1	00009		BEQL	RO, STATUS, 8\$		2001
		00018051	8F		0E 13 56 D1 05 13 56 E8 7A 11	000CB		BEQL	STATUS,		
			D6		56 E8	000D4 000D7		BLBS	STATUS,		2004 2007
		5A 70	AE		01 90 04 B0 AE 96	00000	8\$:	MOVE	#1. RAB	30 52	2004 2007 2016 2018
				30	AE 9F 01 FE 50 D	000E1		CALLS	#1. SYS	GET	2023
		00018282	69 56 8F		56 D1	000EA		MOVL CMPL BNEQ MOVZWL	STATUS,	#98994	2024
			56	21EC	05 12 8F 30	000F1		MONZAL	9\$ #8684,	STATUS	
34	A	E 40	56 58 AE		56 E9 06 28 AE 94	000FB	9\$:	MOVC3	#6, RAB	16, IDENT_RFA	2023
		42	AE	5A 3C	06 28 AE 94 04 84 AE 95 01 FE	00104	100.	BLBC MOVC3 CLRB BICB2 PUSHAB	#4, RAB	STATUS 13\$ 16, IDENT_RFA 6	2025 2031 2036 2037 2040
			68 56 8F	30	01 FE	00104 00108 00108 0010E 00111	105:	CALLS	#1. SYSS	FIND	2040
		0001827A	8F		56 D1	00111		CALLS MOVL CMPL BEQL CMPL	STÁTUS,	#98938	2041
		00018051	8F		56 D1	00118 0011A 00121		CMPL	12\$ STATUS, 12\$	#98385	
			20	30	56 E9 AE 9F 01 FE	00123		BLBC	STATUS,		2044 2051
			67 56 06	-	01 FE	00129		CALLS	RAB #1, SYSS RO, STAT STATUS,	DELETE	
					56 E8	0012F 00132	115:	BLBS	STATUS,	10\$	2052 2055
40	A	E 34	AE		01 FE 50 E8 1F 102 06 9F 01 FE 50 E9 AE 9F	00123 00126 00127 00127 00132 00134 00138 00147 00147 00147 00148	115: 125:	MOVB MOVC3	#2. RAB	30 IT_RFA, RAB+16	2052 2055 2063 2064 2065
				30	AE 9F	0013E		PUSHAB	RAB	FIND	2065
			68 56 09	7.0	56 E9	00144		BLBC	#1. SYSS RO, STATUS, STATUS, RAB #1. SYSS	13 \$	2066 2073
			67 56	30	O1 FE	00140		CALLS	#1. SYSS	DELETE	2073
		0000000G		30	50 DO 56 E9 01 FE 50 DO AE 9F	00153	13\$:	BEQL BLBC PUSHAB CALLS MOVL BLBS BRB MOVC3 PUSHAB CALLS MOVL BLBC PUSHAB CALLS MOVL PUSHAB CALLS CALLS	PAR		2074
		000000006	00 07 9F		01 FE 00 FE 56 E9 01 00	00156 00150 00160 00167 0016A 0016D	148:	BLBC	CLOSE	FREE 15\$ KESCLOSE_RDB 16\$	2080
		00000000	04 50		56 E	00167	15\$:	BLBC MOVL RET	STATUS.	16\$	2081 2085

RDBSHR V04-000

SY VO

RDBSHR - Rights database loadable system servic 16-Sep-1984 01:48:50 VAX-11 Bliss-32 V4.0-742 Page 64 V04-000 SYS\$REM_IDENT - remove identifier from RDB 14-Sep-1984 12:40:52 [LOADSS.SRC]RDBSHR.B32;1 (12)

50 56 DO 0016E 16\$: MOVL STATUS, RO

64 00171 RET : 2087

; Routine Size: 370 bytes, Routine Base: \$CODE\$ + OF1B

2099 2088 1 2100 2089 1 END 2101 2090 0 ELUDOM

PSECT SUMMARY

Name Bytes Attributes

\$CODE\$
4237 NOVEC.NOWRT. RD . EXE.NOSHR. LCL. REL. CON.NOPIC.ALIGN(2)
\$PLIT\$
380 NOVEC.NOWRT, RD .NOEXE.NOSHR. LCL. REL. CON.NOPIC.ALIGN(2)

Library Statistics

File Total Loaded Percent Mapped Time

\$255\$DUA28:[SYSLIB]LIB.L32:1 18619 195 1 1000 00:01.9

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:RDBSHR/OBJ=OBJ\$:RDBSHR MSRC\$:RDBSHR/UPDATE=(ENH\$:RDBSHR)

Size: 4237 code + 380 data bytes Run Time: 01:33.8 Elapsed Time: 02:52.5 Lines/CPU Min: 1337

Elapsed Time: 02:52.5 Lines/CPU Min: 1337 Lexemes/CPU-Min: 30273 Memory Used: 308 pages Compilation Complete

0220 AH-BT13A-SE

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